

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) _____

Address _____

GEOLOGICAL TARGET FORMATION Alexander

Estimated depth of completed well 5400 feet. Rotary / Cable tools /
Approximate water strata depths: Fresh, NONE feet; salt, NONE feet.
Approximate coal seam depths: NONE
Is coal being mined in this area: Yes / No /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL- UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill- ling		
Conductor	11 1/2					300'	To Surface	Kinds
Fresh water								
Coal								Sizes
Intermed.	8 5/8					1900'	CTS	
Production	4 1/2					5000'	140 Sacks	Depths set
Tubing							Or thru	
Liners							salt sand	Perforations:
								Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 6-25-83,
BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the well operator has complied with all applicable requirements of the West Virginia Code and the governing regularions.

Date: _____, 19____.

By: _____

Its: _____

08/18/2023

STAMPED COPY



1) Date: June 6, 19 83
 2) Operator's Well No. W. D. Shields - R-102
 3) API Well No. 47 085 5963 Renewal
 State County Permit

DRILLING CONTRACTOR:

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 891 Watershed: Layfield Run
 District: Grant County: Ritchie Quadrangle: Schultz, 7 1/2
- 6) WELL OPERATOR Richards Energy, Inc. 11) DESIGNATED AGENT C. W. Richards
 Address 900-F Cedarwood-P.O.Box 3 Address 2005 Foley Drive
 Belpre, Ohio 45714 Parkersburg, WV 26101
 (304) 428-3121
- 7) OIL & GAS ROYALTY OWNER W. D. Shields Heirs 12) COAL OPERATOR None
 Address c/o Donna Scott, Route 1 Address
 Cairo, WV 26337
- 8) SURFACE OWNER W. D. Shields 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Route 1 Name None
 Cairo, WV 26337 Address
 Acreage 32 Name None
 Address
- 9) FIELD SALE (IF MADE) TO: 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Address N/A Name None
 Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Samuel N. Hersman Address
 P. O. Box 66
 Smithville, WV 26178
- 15) PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Alexander
- 17) Estimated depth of completed well, 5400 feet
- 18) Approximate water strata depths: Fresh, None / 14 / feet; salt, None feet.
- 19) Approximate coal seam depths: Is coal being mined in the area? Yes / No

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11-1/2								Kinds
Fresh water						200	200	CTS	by Rule 15-05
Coal									Sizes
Intermediate	8-5/8			X		1200'	1200'	CTS	
Production	4-1/2			X		5400'	540 Sacks or as req'd		Depths set
Tubing							by Rule 15.01		
Liners									Perforations:
									Top Bottom

21) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: _____
 My Commission Expires _____

Signed: RICHARDS ENERGY, INC.
 Its: C. W. Richards
 Agent

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-085-5963-REN. July 7 19 83
 Date 08/18/2023

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires March 7, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BBB</u>	Agent: <u>ok</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: 1096
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[Signature]
 Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

24) The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

08/18/2023

Date: _____, 19____

By _____

Its _____



RECEIVED

OCT 6 - 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

State of West Virginia

OFFICE OF OIL AND GAS
DEPARTMENT OF MINES

DATE: 10-6, 1982

OPERATOR'S

WELL NO.: R-101 + R-102

API NO: 47 - 085 - 5963

State County Permit N

A F F I D A V I T

State of WV

County of Kanawha

I, _____ (the designated owner or operator, or authorized representative thereof), after being duly sworn, do depose and say that the undersigned is authorized by the owner of the working interest in the well permit application to which this affidavit is attached do state that (he, she, or it) shall tender to the owner of the oil and gas in place not less than one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced, or marketed before deducting the amount to be paid or set aside for the owner of the oil or gas in place, or all such oil or gas to be extracted, produced, or marketed from the well. West Virginia Code 22-4-11(e) (1982).

Signed: Cornie J. Moore / Richards Energy Inc.

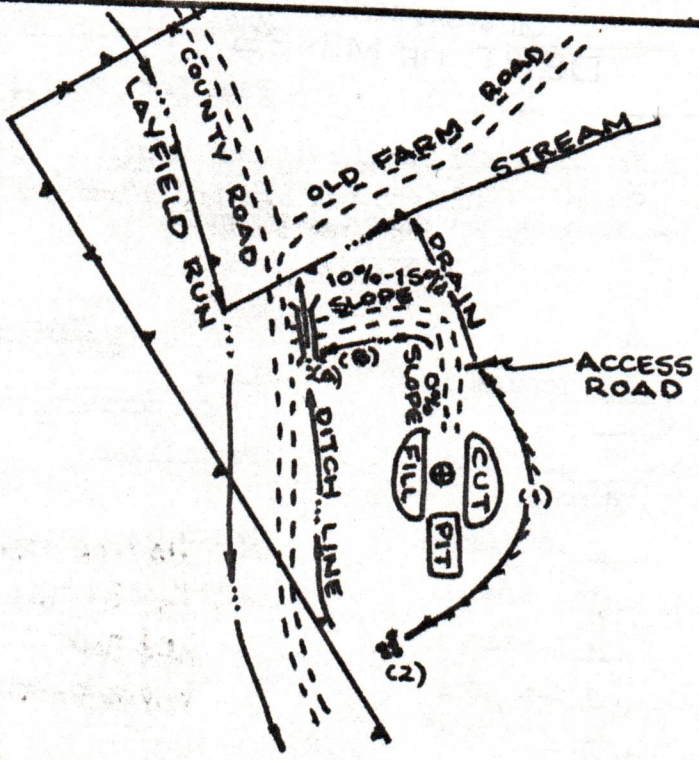
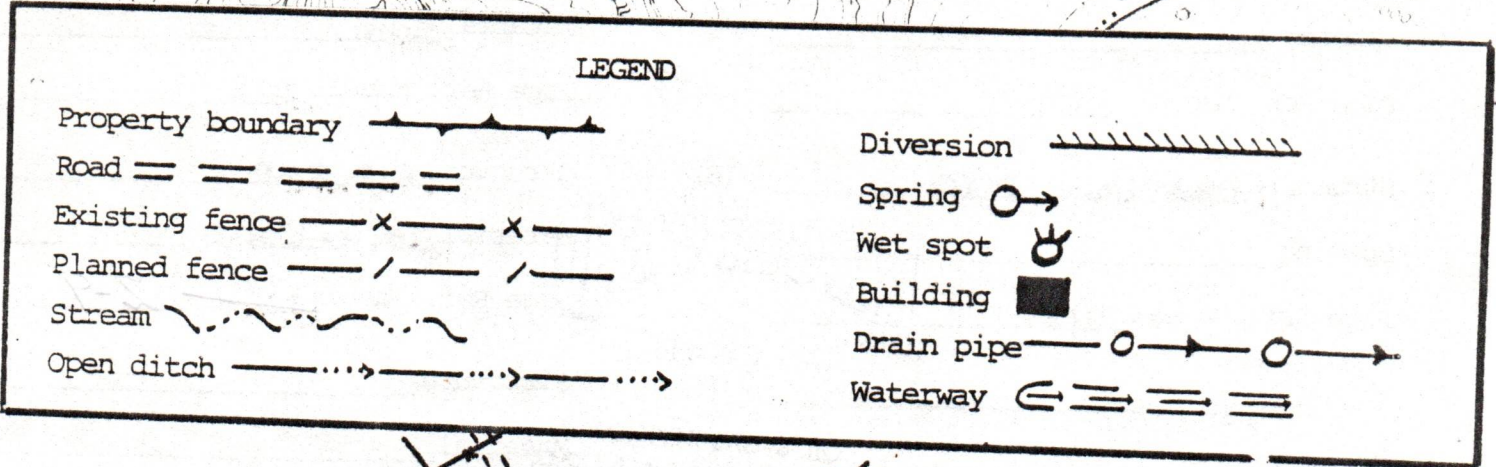
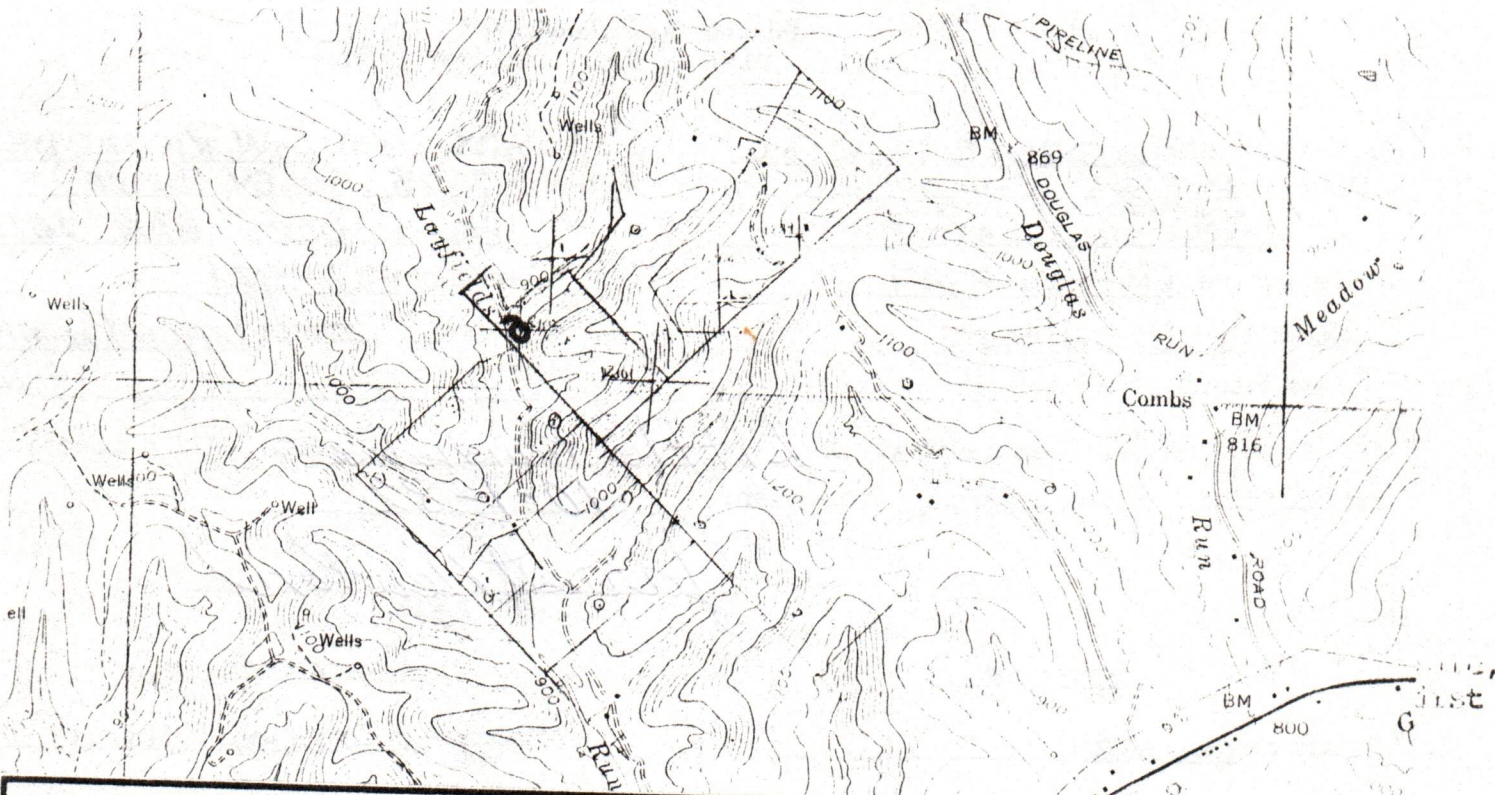
Taken, Subscribed, and sworn to before me this 6th day of Oct, 1982.

Notary: Louis A. Simpkins

My Commission Expires: March 9, 1992

ATTACH OR PHOTOCOPY SECTION OF
INVOLVED TOPOGRAPHIC MAP.
QUADRANGLE SCHULTZ

LEGEND
WELL SITE ⊕ ACCESS ROAD —



- Comments:
1. LENGTH OF ACCESS ROAD 150'.
 2. BRUSH AND TREES TO BE PILED AT SITE.
 - _____
 - _____
 - _____

08/18/2023



IV-9
(Rev 8-81)

DATE 20 AUG 1982
WELL NO. R-102
API NO. 47-085-5963

State of West Virginia
Department of Mines
Oil and Gas Division
Construction & Reclamation Plan

COMPANY NAME RICHARDS ENERGY INC.
ADDRESS Suite 500A CEDARWOOD
SYCAMORE ST. P.O. Box 3
BELPRE, OHIO 45714
Telephone 614-423-5747

DESIGNATED AGENT G.W. RICHARDS
ADDRESS 2005 FOLEY DRIVE
PARKERSBURG, W.VA. 26101
Telephone 428-3121

LANDOWNER W.D. SHIELDS
Revegetation to be carried out by _____ (Agent)

SOIL CONS. DISTRICT LITTLE KANAWHA

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 10-1-82 (Date)

Garrett Newton
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>CULVERT</u> (A) Spacing <u>12"</u> Page Ref. Manual <u>2:7</u>	Structure <u>DIVERSION DITCH</u> (1) Material <u>SOIL</u> Page Ref. Manual <u>2:12</u>
Structure <u>DRAINAGE DITCH</u> (B) Spacing _____ Page Ref. Manual <u>2:12</u>	Structure <u>RIP-RAP</u> (2) Material <u>ROCK-LOGS</u> Page Ref. Manual <u>N/A 2-9</u>
Structure _____ (C) Spacing _____ Page Ref. Manual _____	Structure _____ (3) Material _____ Page Ref. Manual _____

RECEIVED
OCT 00 1982

OIL & GAS DIVISION
DEPT. OF MINES

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I

Lime _____ Tons/acre
or correct to pH 6.5

Fertilizer 500 lbs/acre
(10-20-20 or equivalent)

Mulch HAY OR STRAW 2 Tons/acre

Seed* Ky 31 TALL FESCUE 40 lbs/acre
Red Top 5 lbs/acre
Birds FOOT TREFOIL 10 lbs/acre
_____ lbs/acre

Treatment Area II

Lime _____ Tons/acre
or correct to pH 6.5

Fertilizer 500 lbs/acre
(10-20-20 or equivalent)

Mulch HAY OR STRAW 2 Tons/acre

Seed* Ky 31 TALL FESCUE 40 lbs/acre
Red Top 5 lbs/acre
Birds FOOT TREFOIL 10 lbs/acre
_____ lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium.
Inoculate with 3X recommended amount.

08/18/2023

PLAN PREPARED BY WILLIAM R. MOSSOR, L.L.S.

ADDRESS 106 NORTH SPRING STREET

HARRISVILLE, W.VA. 26362

PHONE NO. 304-643-4572

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

State of West Virginia County of Ritchie to-wit:
 I, C. W. Richards
 a Notary Public of said County of Ritchie do certify that
Donna Scott Attorney for W H Shields

his wife, whose name Jules signed to the writing above bearing date the 14th day of July A. D. 1964 ha 3 this day acknowledged the same before me
 in my said county.
 Given under my hand this 17th day of July A. D. 1964
C. W. Richards
 Notary Public Ritchie County, West Va.
 My Commission expires August 2, 1971

State of _____ County of _____ to-wit:
 I, _____
 a _____ of said County of _____ do certify that
 _____ and _____

his wife, whose name _____ signed to the writing above bearing date the _____ day of _____ A. D. 19 _____ ha _____ this day acknowledged the same before me
 in my said county.
 Given under my hand this _____ day of _____ A. D. 19 _____

 Notary Public _____ County, _____
 My Commission expires _____

State of _____ County of _____ to-wit:
 I, _____
 a _____ of said County of _____ do certify that
 _____ and _____

his wife, whose name _____ signed to the writing above bearing date the _____ day of _____ A. D. 19 _____ ha _____ this day acknowledged the same before me
 in my said county.
 Given under my hand this _____ day of _____ A. D. 19 _____

 Notary Public _____ County, _____
 My Commission expires _____

For and in consideration of the sum of One Dollar, cash in hand paid, receipt of which is hereby acknowledged, _____ hereby assigned, transfer, set over and convey all _____ right, title to and interest in the within described oil and gas lease to _____ to have and to hold according to all the terms contained therein.

Taken, subscribed and sworn to before me, _____ (SEAL)
 a Notary Public of _____ County, this _____ day of _____ A. D. 19 _____ (SEAL)
 My commission expires _____
 _____ Notary Public

08/18/2023

Globe Form 25 Rev.

OIL AND GAS LEASE

FROM
W H Shields

(175 Acres)

TO

C. W. Richards
Notary Public

Date _____ 19 _____

Term, Ten Years

Number of Acres _____

LOCATION

Filed and admitted to record in the office
 of the Clerk of the County Court of Ritchie
 County, W. Va. JUL 13 1965

Received for Record _____ 19 _____
 at _____ o'clock _____ M
 Recorded in _____ Page _____

Book No. _____ Page _____
 Tested _____
 _____ Clerk

Form IV-77
Reverse
(9-84)

API (Permit) Number

Form Name

Operator's Well Number

47 - 085 - 5962

W. D. Shields

R-101

47- 085- 5963

W. D. Shields

R-102

x 47- 085- 6784

W. D. Shields

R-103

47- 085- 6783

W. D. Shields

R-104

47- 085- 6776

W. D. Shields

R-105

47- 085- 5124

Arnold K. Richards

R-20

47- 085- 5121

James A. Wilson

R-21

47- 085- 5193

James A. Wilson

R-22

47- 085- 5194

James A. Wilson

R-23

47- 085- 5198

James A. Wilson

R-24

47- 085- 5201

Arnold K. Richards

R-25

47- 085- 5302

Arnold K. Richards

R-27

47- 085- 5303

Arnold K. Richards

R-28

47- 085- 5304

Arnold K. Richards

R-29

47- 085- 5305

Arnold K. Richards

R-30

08/18/2023



State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

DEPT. OF MINES
OIL & GAS DIVISION

JUL 15 1985

RECEIVED

This is to acknowledge that the wells listed on the reverse of this form are hereby transferred from Richards Energy, Incorporated 42075 (the transferor) to Gerber Energy Corporation 19110 (the transferee).

The transferee by this document is accepting all responsibility for compliance with the provisions of Chapter 22 Article 4 of the West Virginia Code and all rules and regulations promulgated thereunder, for the listed wells.

The transferee's designated agent (name) C. W. Richards
(address) 2005 Foley Drive, Parkersburg, WV 26101
is on file with the Office of Oil and Gas.

The transferee has bonded the said wells by securities, cash, or surety (circle one) bond identified below by amount, effective date, issuing authority, and any identifying number. \$50,000.00, Effective July 10, 1985, issued by the Travlers Indemnity Company,
Bond No. 052-478GG873

(Transferee) Gerber Energy Corporation

By Ronald J. Matlock
Its Vice President

Taken, subscribed and sworn to before me this 9th day of July 19 85

Notary Public Irene Hettinger

My commission expires August 29 19 88

(Transferor) Richards Energy Company (Transferor) Richards Energy, Inc.

By C. W. Richards By C. W. Richards
Its Partner Its President

Taken, subscribed and sworn to before me this 15th day of July 19 85

Notary Public Cathy Decker

My commission expires _____ 19 _____

ACCEPTED THIS 75 DAY OF July, 19 85
BY: _____
My Commission Expires June 21, 1988

Administrator-Office of Oil and Gas

08/18/2023

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

75 Q. FOAM FRAC

1st Stage: Devonian Shale 3750' - 4017', 240 bbl water, 45,000# 20/40 sand,
15,000# 10/20 sand

2nd Stage: Devonian Shale 3402' - 3701', 292 bbl water, 25,000# 20/40 sand

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Top soil and clay			0	50	
Shale and sand			50	290	fresh water @ 80'
Shale - Blue			290	370	
Sandstone			370	405	
Red rock and shale			405	1060	
Sandstone			1060	1100	
Shale			1100	1158	
Sandstone			1158	1270	
Shale, gray, soft and Sand			1270	1450	
Salt Sand, white, hard			1430	1530	Show of gas 1450
Sandstone, white, hard			1530	1550	
Shale, grey, soft			1550	1607	
Lime, hard			1607	1671	
Shale, soft			1671	2196	
Berea sand, hard			2196	2210	
Shale			2210	2595	
Gordon, soft			2595	2650	
Shale			2650	4400	
T.D.				4400	
Log tops:					
Second Salt Sand			1454		Show of gas 1450
Third Salt Sand			1587		Show of gas 1550 6/10 water 1" op
Eroded Big Lime			1604		
Big Injun			1659		
Squaw			1792		Show of gas 1709 10/10 water 1" o
Pocono Shale			1805		
Berea			2192		
Gordon Stray			2309		
Fifth Sand			2580		

(Attach separate sheets as necessary)

RICHARDS ENERGY COMPANY

Well Operator

By:

C. J. Richards

08/18/2023

Date:

January 2, 1984

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the logging of a well."



Date January 2, 1984
Operator's
Well No. R-102
Farm W.D.Shields
API No. 47 - 085 - 5963

RECEIVED

OCT 11 1984
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas x / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 891' Watershed Layfield
District: Grant County Ritchie Quadrangle Schultz

COMPANY Richards Energy Company
ADDRESS P. O. Box 3, Belpre, OH
DESIGNATED AGENT C. W. Richards
ADDRESS 2005 Foley Ave,
Parkersburg, WV 26104
SURFACE OWNER _____
ADDRESS _____
MINERAL RIGHTS OWNER _____
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK _____
ADDRESS _____

PERMIT ISSUED _____
DRILLING COMMENCED 11-14-83
DRILLING COMPLETED 11-19-83

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
11-3/4" 13-10"	318 ft.	318 ft	150 sxs
9 5/8			
8 5/8	1879 ft	1879	175 sxs
7			
5 1/2			
4 1/2	4373	4373	345 sxs
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5400 feet
Depth of completed well 4400 feet Rotary X / Cable Tools _____
Water strata depth: Fresh 80 feet; Salt None feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth _____ feet
Gas: Initial open flow Show Mcf/d Oil: Initial open flow Show Bbl/d
Final open flow 202.4 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours

Static rock pressure 580 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)

08/18/2023

Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours

Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

RECEIVED
NOV 2 1 1983

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 85-5963 REN

Oil or Gas Well _____
(KIND)

Company <u>Richards Energy</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>W. D. Shields</u>	16			Kind of Packer _____
Well No. <u>R-102</u>	13			
District <u>Grant</u> County <u>Putnam</u>	10			Size of _____
Drilling commenced <u>11-14-83</u>	8 1/4			
Drilling completed _____ Total depth _____	6 3/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: Visit location site - Rig on location, drilling - Pit OK

11-14-83
DATE

Samuel M. Hermon
DISTRICT WELL INSPECTOR

08/18/2023

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____ Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner			Location			Amount			Packer			Location					
PLUGS USED AND DEPTH PLACED						BRIDGES						CASING AND TUBING					
CEMENT-THICKNESS		WOOD-SIZE		LEAD		CONSTRUCTION-LOCATION						RECOVERED		SIZE		LOST	

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.

DATE

08/18/2023
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

RECEIVED

NOV 21 1983

OIL & GAS DIVISION

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 85-5963

Oil or Gas Well _____
(KIND)

Company <u>Richards Energy</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>W. D. Shields</u>	16			Kind of Packer _____
Well No. <u>R-102</u>	13			
District <u>Grant</u> County <u>Pitkin</u>	10			Size of _____
Drilling commenced <u>11-14-83</u>	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water <u>80'</u> feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Fredrick Watkins / c.w. Price / Emerson Coon

Remarks: Clint Hurt Rig # 5 Tool Pusher Rodney Paston

Ran 318 feet of 11 3/4" casing
Halliburton ran 150 sacks cement
Waiting on cement at time of visit

11-15-83
DATE

Samuel M. Newman
DISTRICT WELL INSPECTOR

08/18/2023

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner	Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES	CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION	RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.
DATE

08/18/2023
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

RECEIVED

JUN 12 1984

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES
Oil or Gas Well _____
(KIND)

Permit No. 85-5963

Company <u>Richards Energy</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>W. D. Shields</u>	16			Kind of Packer _____
Well No. <u>R-102</u>	13			
District <u>Grant</u> County <u>Ritchie</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 3/4			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: Make special inspection of site at request of doper operator (Alvin Reed) to work out details on reclamation

6-8-84
DATE

Samuel N. Hopper
DISTRICT WELL INSPECTOR

06/18/2023

Form 26
2/16/82

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

Liner		Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

_____ I hereby certify I visited the above well on this date.
DATE
08/18/2023
DISTRICT WELL INSPECTOR



RECEIVED
SEP 24 1985

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
November 8, 1984

COMPANY Richards Energy Company
P. O. Box 3
Belpre, Ohio 45714

PERMIT NO 085-5963 (7-07-83)
FARM & WELL NO W. D. Shields #R-102
DIST. & COUNTY Grant/Ritchie

RULE	DESCRIPTION	IN COMPLIANCE	
		YES	NO
23.06	Notification Prior to Starting Work	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.04	Prepared before Drilling to Prevent Waste	<input type="checkbox"/>	<input type="checkbox"/>
25.03	High-Pressure Drilling	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.01	Required Permits at Wellsite	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15.03	Adequate Fresh Water Casing	<input type="checkbox"/>	<input type="checkbox"/>
15.02	Adequate Coal Casing	<input type="checkbox"/>	<input type="checkbox"/>
15.01	Adequate Production Casing	<input type="checkbox"/>	<input type="checkbox"/>
15.04	Adequate Cement Strenght	<input type="checkbox"/>	<input type="checkbox"/>
15.05	Cement Type	<input type="checkbox"/>	<input type="checkbox"/>
23.02	Maintained Access Roads	<input checked="" type="checkbox"/>	<input type="checkbox"/>
25.01	Necessary Equipment to Prevent Waste	<input type="checkbox"/>	<input type="checkbox"/>
23.04	Reclaimed Drilling Pits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.05	No Surface or Underground Pollution	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23.07	Requirements for Production & Gathering Pipelines	<input type="checkbox"/>	<input type="checkbox"/>
16.01	Well Records on Site	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16.02	Well Records Filed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.05	Identification Markings	<input checked="" type="checkbox"/>	<input type="checkbox"/>

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Samuel N. Kersman
DATE 9-17-85

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

[Signature]
Administrator-Oil & Gas Division

September 30, 1985

DATE

08/18/2023

HALLIBURTON SERVICES JOB SUMMARY

HALLIBURTON
DIVISION
HALLIBURTON
LOCATION

Pittsburgh, Pa
Weston, WV

BILLED ON
TICKET NO. 413297

CUSTOMER
Richard's Energy
LEASE
Shields
WELL NO. P-102
JOB TYPE C-11 3/4" Csg
DATE 11-15-83

WELL DATA

FIELD Ingram Ridge SEC. _____ TWP. _____ RNG. _____ COUNTY Putchke STATE WV.

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING		N	H ₂ O	11 3/8	K.O.	318	300
LINER							
TUBING							
OPEN HOLE							11 3/4 SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

FORMATION THICKNESS FROM _____ TO _____

INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH 343

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE <u>11 3/4"</u>	<u>1</u>	<u>Howco</u>
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG <u>11 3/4" S-W</u>	<u>1</u>	<u>Howco</u>
HEAD <u>11 3/4" P.C. + MAN</u>	<u>1 EA</u>	<u>"</u>
PACKER		
OTHER <u>11 3/4" CUP BASKET</u>	<u>1</u>	<u>Howco</u>

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-14-83</u>	DATE <u>11-14-83</u>	DATE <u>11-15-83</u>	DATE <u>11-15-83</u>
TIME <u>15:30</u>	TIME <u>20:00</u>	TIME <u>04:10</u>	TIME <u>04:40</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. BARNETT</u>	<u>CHIEF</u>	<u>WESTON, WV</u>
<u>R. B. WARD</u>	<u>MT-150</u>	<u>" "</u>
<u>E. BOYD</u>	<u>T.O.</u>	<u>" "</u>
	<u>3265</u>	<u>" "</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API

DISPL. FLUID _____ DENSITY _____ LB/GAL. API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN

NE AGENT TYPE _____ GAL. _____ IN

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN

GELLING AGENT TYPE _____ GAL.-LB. _____ IN

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN

BREAKER TYPE _____ GAL.-LB. _____ IN

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFPAC BALLS TYPE _____ QTY. _____

OTHER 5 STS Howco Gel - 4/8

OTHER _____

DEPARTMENT CAT

DESCRIPTION OF JOB C-11 3/4" FT 11 3/4" Csg

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE James K Burns

HALLIBURTON OPERATOR D. Barnett COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>150</u>	<u>STD</u>	<u>A</u>	<u>Howco</u>	<u>B</u>	<u>3% CMC 1 + 1/4# Floccula P/SR</u>	<u>1.18</u>	<u>15.6</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. 4.5

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 36.5

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. 32

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. 113.5

ORDERED _____ AVAILABLE _____ USED _____ REMARKS

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

FEET 16 REASON CUSTOMER REQUEST

SEE JOB LOG ATTACHED

08/18/2023

CUSTOMER

HALLIBURTON SERVICES JOB SUMMARY

FORM 2025

HALLIBURTON DIVISION P. H. Asburg PA
HALLIBURTON LOCATION Woston WV

BILLED ON TICKET NO. 679519

WELL DATA

FIELD _____ SEC. _____ TWP. _____ RNG. _____ COUNTY Ritchie STATE WV

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
FORMATION THICKNESS _____ FROM _____ TO _____							
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____							
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD _____							
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____							SHOTS/FT.
PACKER TYPE _____ SET AT _____							
BOTTOM HOLE TEMP. _____ PRESSURE _____							
MISC. DATA _____ TOTAL DEPTH <u>1913</u>							

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-17-83</u>	DATE <u>11-17-83</u>	DATE <u>11-17-83</u>	DATE <u>11-17-83</u>
TIME <u>7:00</u>	TIME <u>12:30</u>	TIME <u>2:55</u>	TIME <u>3:45</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS <u>8 7/8 Spec</u>	<u>5 FA</u>	<u>Howiro</u>
BOTTOM PLUG		
TOP PLUG <u>8 7/8 5-wiper Rubber</u>	<u>1 FA</u>	<u>Howiro</u>
HEAD <u>P-C-12</u>	<u>1 FA</u>	<u>Howiro</u>
PACKER		
OTHER <u>8 7/8 Insert Flat Valve</u>	<u>1 FA</u>	<u>Howiro</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>C. Barnett</u>	<u>29140 P.U.</u>	<u>Woston</u>
<u>R. Woodward</u>	<u>3926</u>	<u>"</u>
<u>C. Burkhardt</u>	<u>B-150</u>	<u>"</u>
<u>S. Wilson</u>	<u>1609 T.O.</u>	<u>"</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API

DISPL. FLUID _____ DENSITY _____ LB/GAL. API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____ IN

NE AGENT TYPE _____ GAL. _____ IN

FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN

GELLING AGENT TYPE _____ GAL.-LB. _____ IN

FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN

BREAKER TYPE _____ GAL.-LB. _____ IN

BLOCKING AGENT TYPE _____ GAL.-LB. _____

PERFFAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER 25 sks Howiro bet M/B

DEPARTMENT C.A.

DESCRIPTION OF JOB Cut & Plug 1sg.

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE James R. Burnett

HALLIBURTON OPERATOR J. C. Barnett

COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	TYPE	API CLASS	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>175</u>	<u>Std</u>	<u>A</u>	<u>Howiro</u>	<u>B</u>	<u>2% (act) 1/2# Floccite</u>	<u>118</u>	<u>15.6</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL.-GAL. _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. 130

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 119.9

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL.-GAL. 36.7

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. 286.6

ORDERED _____ AVAILABLE _____ USED _____ REMARKS See Job log

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____ Insert Flat Valve 1853

FEET 26 REASON Shoe Joint

08/18/2023

CUSTOMER

CUSTOMER Richards Energy
LEASE Shields
WELL NO. P-102
JOB TYPE Cut & Plug 1sg.
DATE 11-17-83

CEMENTING SERVICE REPORT



DOWELL DIVISION OF DOW CHEMICALS
AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

TREATMENT NUMBER: 0112-2301 DATE: Nov 20, 1983
STAGE: 1 DOWELL DISTRICT: Clarksburg, W. Va.

DWL-496-N PRINTED IN U.S.A.

WELL NAME AND NO.: WD Shields # R102
LOCATION (LEGAL): Layfield Run
FIELD-POOL: Grant Dist
FORMATION: Shale
COUNTY/PARISH: Ritchie
STATE: W. Va. API NO.: 17-025 5963

RIG NAME: Hunts Rig
WELL DATA: 4 1/2" 738 BOTTOM: 4374 TOP: 0
BIT SIZE: 738 CSG/LINER SIZE: 4 1/2
TOTAL DEPTH: 4374 WEIGHT: 10.5
 ROT CABLE FOOTAGE: 4374
MUD TYPE: J-55 GRADE: J-55
 BHST BHCT THREAD: 8rd
MUD DENSITY: 13.8 LESS FOOTAGE SHOE JOINT(S): 0 TOTAL: 13.8
MUD VISC.: 69.5 DISP. CAPACITY: 69.5 TOTAL: 69.5
NOTE: INCLUDE FOOTAGE FROM GROUND LEVEL TO HEAD IN DISP. CAPACITY

NAME: Richards Energy
AND:
ADDRESS:
ZIP CODE:

SPECIAL INSTRUCTIONS: Cement 4 1/2" with 235 lbs Lightweight 5 w/10% Salt & 10% KCLITE; 110 st. RFC w/ 10% KCLITE

FLIGHT TYPE: Dowell Lat-h-in DEPTH: 4374
SHOE TYPE: Dowell Flapper Float DEPTH: 4374
HEAD & PLUGS: TBG D.P. SQUEEZE JOB
 DOUBLE SIZE: - TOOL TYPE: -
 SINGLE WEIGHT: - DEPTH: -
 SWAGE GRADE: - TAIL PIPE: SIZE: - DEPTH: -
 KNOCKOFF THREAD: - TUBING VOLUME: - Bbls
TOP R W NEW USED: - CASING VOL. BELOW TOOL: - Bbls
BOT R W DEPTH: - TOTAL: - Bbls
ROTATE: - RPM: - RECIPROCATATE: - FT: - NO. OF CENTRALIZERS: 12 ANNUAL VOLUME: - Bbls

PRESSURE LIMIT: 2000 PSI BUMP PLUG TO: 1000 Gage PSI
ARRIVE ON LOCATION: TIME: 1000 DATE: 11-20 LEFT LOCATION: TIME: 1300 DATE: 11-20-83

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
0001 to 2400											
1140											
1148		0	7	7	6	H ₂ O					
1149		0	20	27	6	CLW					
1154		0	5	32	5	H ₂ O					
1156		0	97	129	6	com					
1214		0	-	-	-						
1215		0	69.5	199	6						
1230		1000			4						
1231		0									

SERVICE LOG DETAIL
PRE-JOB SAFETY MEETING
Pump H₂O
Pump CLW/100
Pump H₂O spacer
Pump Cement Sys #1 (Lightweight) Sys #2 (RFC)
Shut down, Flush lines, drop plug.
Digloss plug
slow rate after 50 Bbl in
Plug set
Bleed-back, lat-h-in holds

Thanks For calling Dowell!

REMARKS:

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1.	235	1.46	Lightweight 5 w/ 10% Salt and 10% KCLITE		61 Bbl	13.8 ¹¹⁰
2.	110	1.73	RFC 1213 w/ 10% KCLite		34 Bbl	14.1 ¹¹⁰
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. CIRCULATION LOST: None Planned YES NO
PRESSURE: MAX. 1000 MIN: 0
CEMENT CIRCULATED TO SURF. YES NO Bbls
BREAKDOWN: PSI: 1000 FINAL: 0 PSI: 0 DISPLACEMENT VOL.: 69.5 Bbl Bbls
TYPE OF WELL: OIL GAS STORAGE BRINE WATER
WASHED THRU PERFS: YES NO TO: 0 FT: 0 MEASURED DISPLACEMENT: WIRELINE
PERFORATIONS: TO: 0 TO: 0 CUSTOMER REPRESENTATIVE: Pat Burns DOWELL SUPERVISOR: George W. Wilthe Jr **08/18/2023**