

New Location
Drill Deeper
Abandonment

Company Kaiser Exp. & Mining Co.
Address P.O. Box 8-Ravenswood, WV 26164
Surface: Brooks Smith KEM-636
Farm OTIS SHINN
Tract _____ Acres 299 Lease No. _____
Well (Farm) No. 2 Serial No. _____
Elevation (Spirit Level) 665.00
Quadrangle RIPLEY 578
County JACKSON District RIPLEY 3
Engineer G. J. Dye
Engineer's Registration No. 804
File No. _____ Drawing No. _____
Date 5-6-59 Scale 1" = 40 POLES

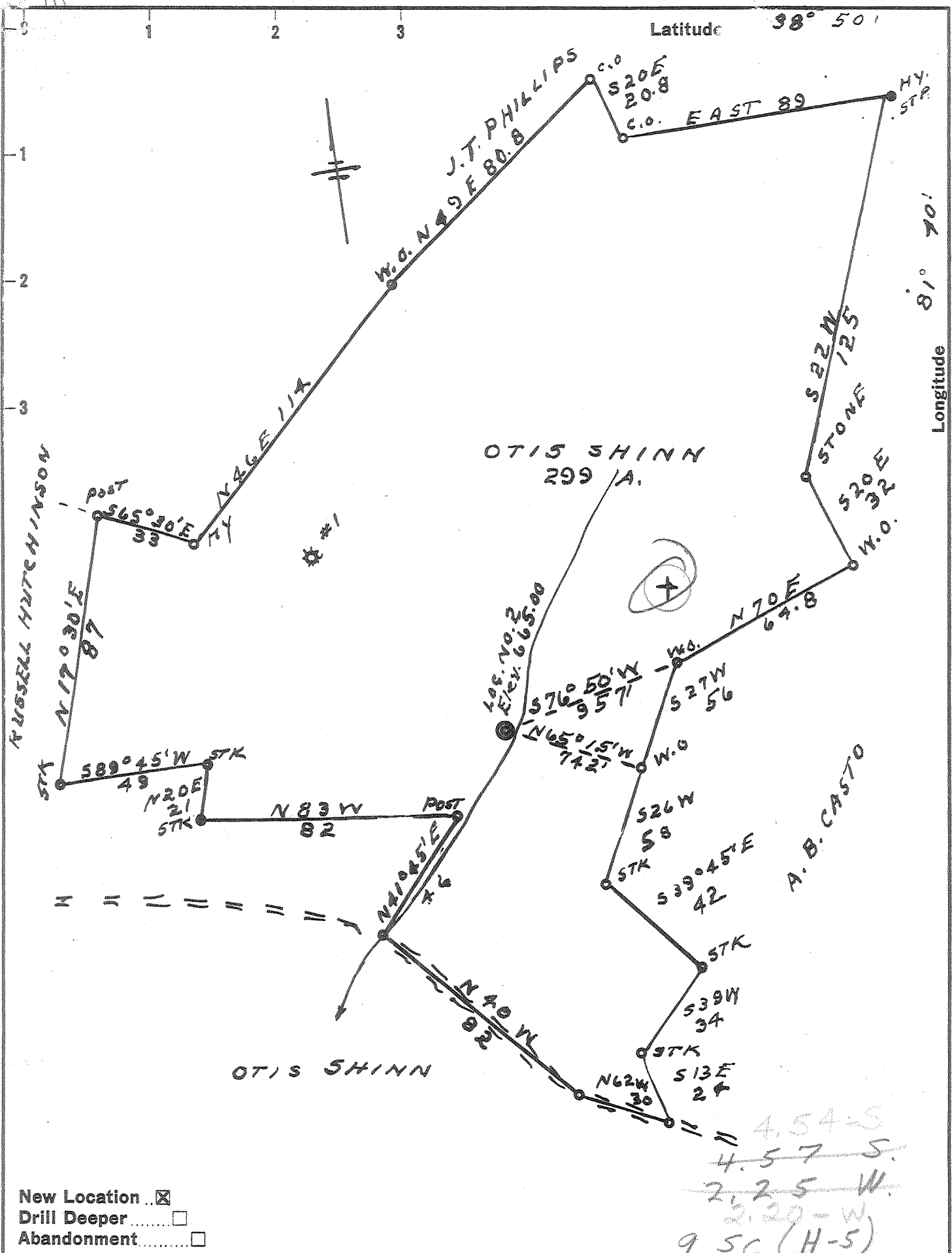
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
FILE NO. JAC-997-Frac.

$+$ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 $-$ Denotes one inch spaces on border line of original tracing.

FEB 18 1987

47-035



New Location
 Drill Deeper
 Abandonment

4.54-5
 4.57-5
 2.25-W
 2.29-W
 95C (H-5)

Company	SHINN GAS CO.
Address	RIPLEY, W.VA.
Farm	OTIS SHINN
Tract	Acres 299 Lease No.
Well (Farm) No.	2 Serial No.
Elevation (Spirit Level)	665.00
Quadrangle	RIPLEY-SW
County	JACKSON District RIPLEY
Engineer	G. J. Dye
Engineer's Registration No.	804
File No.	Drawing No.
Date	5-6-59 Scale 1"=40 POLES

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

WELL LOCATION MAP
 FILE NO. JAC-997

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

No Samples 6-6-192 Deep Well

IV-35
(Rev 8-81)

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JUN 04 1987



State of West Virginia

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Department of Mines
Oil and Gas Division

Date May 15, 1987
Operator's Well No. KEM #636
Farm Shinn #2
API No. 47 - 035 - 0997

Fmc

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 X / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 665' Watershed Coxes Fork
District: Ripley County Jackson Quadrangle Ripley

COMPANY Kaiser Exploration & Mining Co.
ADDRESS P. O. Box 8, Ravenswood, WV 26164
DESIGNATED AGENT R. A. Pryce
ADDRESS Same
SURFACE OWNER I. Brooks Smith
ADDRESS Parchment Valley Rd., Ripley, WV 25271
MINERAL RIGHTS OWNER May Shinn
ADDRESS _____
OIL AND GAS INSPECTOR FOR THIS WORK Jerry Tephabock
ADDRESS Rt. 1, Box 101A, Ripley, WV
PERMIT ISSUED _____ 2/13/87
DRILLING COMMENCED 5/20/59 4/20/87
DRILLING COMPLETED 7/31/59 4/21/87

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
10 3/4"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2	2391	2391	250 sks class
3			
2			
Liners used			

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

GEOLOGICAL TARGET FORMATION _____ Depth _____ feet
Depth of completed well _____ feet Rotary X / Cable Tools _____
Water strata depth: Fresh -- feet; Salt -- feet
Coal seam depths: N/A Is coal being mined in the area? NO

OPEN FLOW DATA
Producing formation Berea Sandstone Pay zone depth 2358 - 2366 feet
Gas: Initial open flow -- Mcf/d Oil: Initial open flow -- Bbl/d
Final open flow 192 Mcf/d Final open flow -- Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 850 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
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)

JUN 15 1987

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

- 4/20/87: Young Wireline perforated Berea Sandstone from 2358' to 2366' with 24 shots.
 4/21/87: NOWSCO Well Service cross-link fractured the Berea Sandstone with 481 bbls of water, 192,900 scf of nitrogen, 45,000# of 20/40 mesh sand, ISIP: 1260 psig; 5 min SIP: 1190 psig.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fr and salt water, coal, oil and
SEE ORIGINAL IV-35					

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MINING COMPANY
Well Operator

By: E. A. P. -

Date: May 8, 1987

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 drilling of a well."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Ripley

WELL RECORD

Permit No. JAC -097

Oil or Gas Well Gas
(KIND)

Company Shinn Gas Company
Address Ripley, W. Va.
Farm Otis Shinn Acres 300
Location (waters) Coxes Fork
Well No. 2 Elev. 665
District Ripley County Jackson
The surface of tract is owned in fee by Otis /Shinn
Address Ripley, W. Va.
Mineral rights are owned by Same
Address Same

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16.	20	20	Kind of Packer
13.	50		
10.	6 2/4		Size of
8 3/4	10 8/0		
xxx 7"	20 1/1	20 1/1	Depth set
5 3/16			
3.			Perf. top
2.	4550	4550	Perf. bottom
Liners Used	1017	1017	Perf. top
			Perf. bottom

Drilling commenced May 20, 1959
Drilling completed July 31, 1959
Date Shot None From To
With
Open Flow 2 1/4 /10ths Water in 2 Inch
 /10ths Merc. in Inch
Volume 2464 ~~200~~ 200 ~~200~~ 200 Cu. Ft.
Rock Pressure 1000 lbs. 2 1/4 hrs.
Oil bbls., 1st 24 hrs.
WELL ACIDIZED
WELL FRACTURED

CASING CEMENTED No SIZE No. Ft. Date

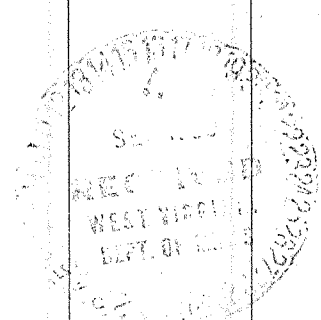
COAL WAS ENCOUNTERED AT None FEET INCHES
 FEET none INCHES FEET INCHES
 FEET none INCHES FEET INCHES

RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water 380 top 420 Feet Salt Water 1575 Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			00	10			
Slate			10	100			
Red Rock			100	125			
Sand			125	150			
Slate			150	200			
Red Rock			200	220			
Slate			220	300			
Slate, Shells			300	370			
Sand			370	620			
Slate Shells			420	445			
Lime			445	495			
Sand			495	570			
Slate			570	595			
Red Rock			595	620			
Slate			620	658			
Sand			658	672			
Slate Shells			672	740			
Pink Rock			740	825			
Red Rock			825	875			
Slate Shells			875	900			
Red Rock			900	925			
Slate-Shells			925	1005			
Sand - <u>Big Sandstone?</u>			1005	1125			
Slate-Shells			1125	1195			
Sand			1195	1235			
Slate Shells			1235	1515			



(over)

Deep Well

Formation	Color	Hard or Soft	Top γ	Bottom	Oil, Gas or Water	Depth Found	Remarks
Black Lime			1515	1565			
Slate Sand			1565	1675			
Slate			1675	1682			
Sand			1682	1745			
Lime <i>240</i>			1745	1857			
White Slate			1857	1925			
Ingun Sand			1925	1950			
Black Lime			1950	2030			
Slate			2030	2328			
Brown Shale			2328	2348			
Brew sand			2348	2356			
Slate & Shells			2356	3600			
Brown shelle-441			3600	3650			
Slate shells			3650	3890			
Brown shale			3890	4175			
White slate			4175	4525			
Brown shale			4525	4804			
Cor Lime <i>463</i>			4804	4894			
Oriskany sand			4894	4904			
Total Dept.			4904				

475

Date....., 19.....

APPROVED....., Owner

By..... (Title)

7/85

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FEB 03 1987



1) Date: January 27, 1987
 2) Operator's Well No. KEM #636, Shinn #2
 3) API Well No. 47 035 0997-FRAC
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

- 4) WELL TYPE: A Oil / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 665' Watershed: Coxes Fork
 District: Ripley 3 County: Jackson 035 Quadrangle: Ripley 577
- 6) WELL OPERATOR Kaiser Exploration and Mining Company CODE: 25350 7) DESIGNATED AGENT R. A. Pryce
 Address P. O. Box 8 Ravenswood, WV 26164 Address Same
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Jerry Tephack Address Rt. 1, Box 101A Ripley, WV 25271
- 9) DRILLING CONTRACTOR: Name KEMGAS Address P. O. Box 8 Ravenswood, WV 26164
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) Run approx. 2400' of 4 1/2" csg & cement. Perf and spot cement plug top at 4170' to plug Oriskany. stimulate Berea.
- 11) GEOLOGICAL TARGET FORMATION, back to Brown Shale
- 12) Estimated depth of completed well, 4170 395 feet
- 13) Approximate strata depths: Fresh, N/A feet; salt, N/A feet.
- 14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No /

15) 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									Kinds Formation
Fresh water									
Coal									Sizes <u>4 1/2" x 6 1/2"</u>
Intermediate	<u>7"</u>	<u>J-55</u>	<u>20</u>	<input checked="" type="checkbox"/>		<u>2041'</u>	<u>2041'</u>	<u>--</u>	
Production	<u>4 1/2" SW50</u>		<u>9.5</u>	<input checked="" type="checkbox"/>		<u>2400'</u>	<u>2400'</u>	<u>100 sks</u>	Depths set <u>2400'</u>
Tubing								<u>OR AS REQUIRED BY RULES.</u>	
Lin.									Perforations:
									Top Bottom
									<u>2348' 2356'</u>

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-035-0997-FRAC Date February 13, 1987

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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires February 13, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: <u>969428</u>	WCP: <input checked="" type="checkbox"/>	S&R: <input checked="" type="checkbox"/>	Other: <input checked="" type="checkbox"/>
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NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
 Director, Division of Oil and Gas