

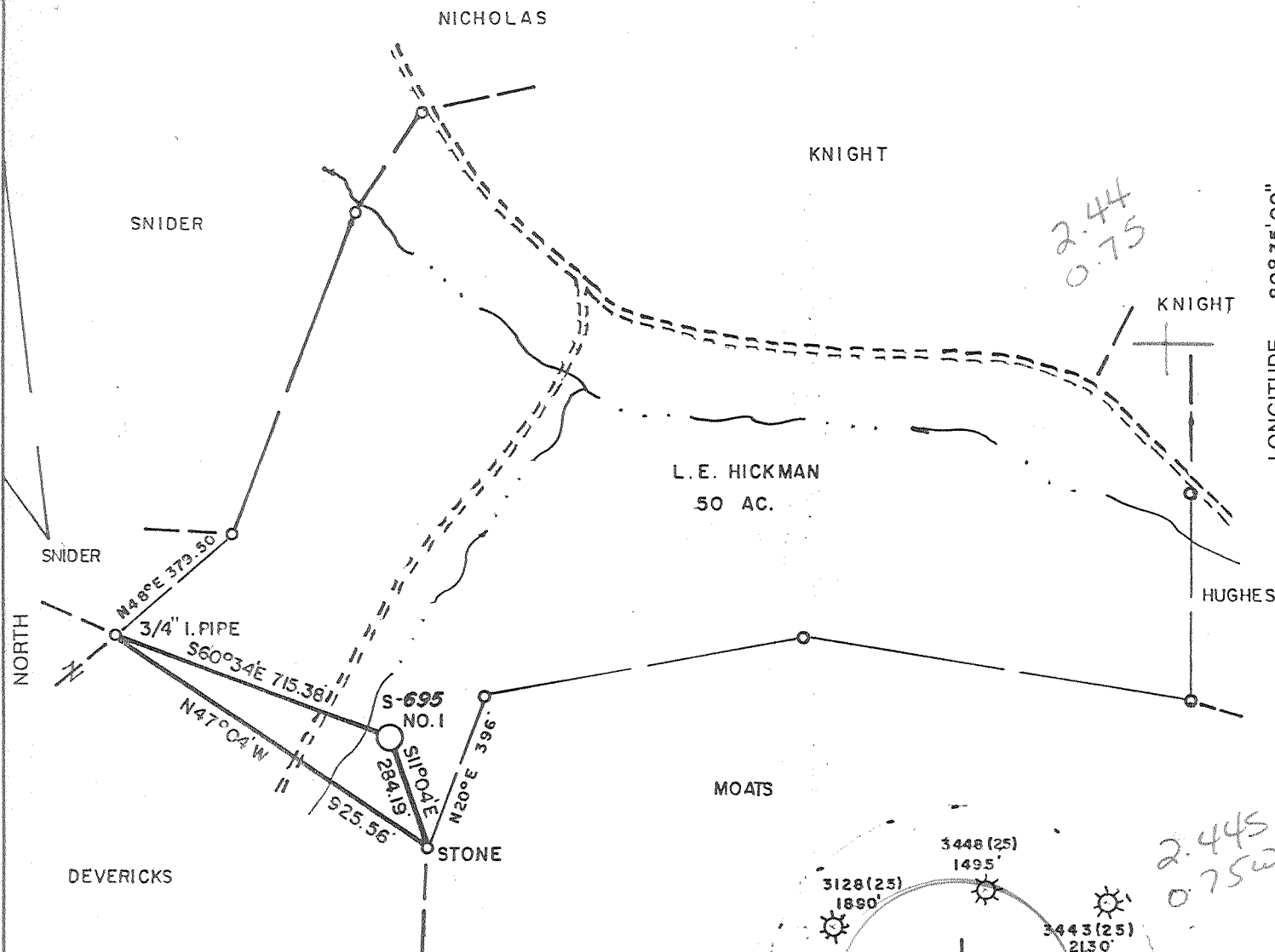
57-15 10/30/87

4050'

LATITUDE 39°15'00"

LONGITUDE 80°55'00"

13,010'

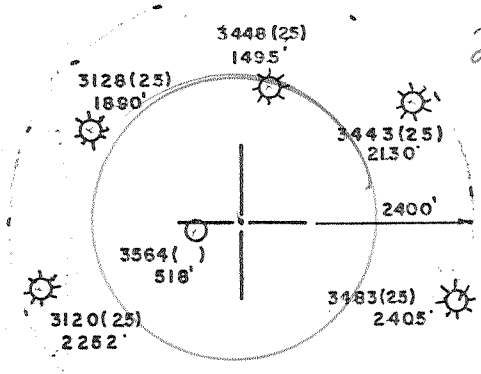


2.44
0.75

2.445
0.750

WELL REFERENCES:
S44°15'W, 170' TO 12" SUGAR
S67°15'W, 149' TO 8" HICKORY

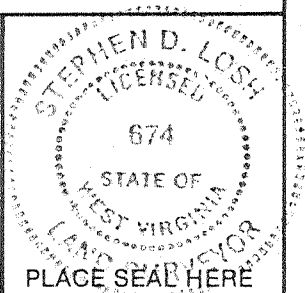
LAND SURVEYING SERVICES
21 CEDAR LANE
BRIDGEPORT, WV 26330
PHONE: 304-842-2018



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION RD. INTER. 1050' N.E. OF LOCATION ELEV. - 974'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
 (SIGNED) Stephen D. Losh
 R.P.E. _____ L.L.S. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE OCTOBER 25, 19 87
 OPERATOR'S WELL NO. S-695
 API WELL NO. L.E. HICKMAN NO. 1
 47 017 3608
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 980' WATERSHED INDIAN FORK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7.5 min. 252 123 Ncz Vadis
 SURFACE OWNER RONALD L. MOATS ACREAGE 70.41
 OIL & GAS ROYALTY OWNER L.E. HICKMAN LEASE ACREAGE 50
 LEASE NO. 2029
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION BENSON/ALEXANDER ESTIMATED DEPTH 5300'
 WELL OPERATOR SCOTT OIL COMPANY DESIGNATED AGENT DARREL WRIGHT
 ADDRESS P.O. BOX 112 ADDRESS P.O. BOX 112
 SALEM, WV 26426 774 SALEM, WV 26426

COUNTY NAME

PERMIT

6-6 Meathouse Fork - Bristol (146)



Date December 1, 1987
Operator's Well No. S-695
Farm L. E. Hickman
API No. 47 - 017 - 3608

WR-35
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State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

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: 980 Watershed Indian Fork
District: Greenbrier County Doddridge Quadrangle Big Isaac

COMPANY Scott Oil Company
ADDRESS P. O. Box 112, Salem, WV 26426
DESIGNATED AGENT Darrel Wright
ADDRESS P. O. Box 112, Salem, WV 26426
SURFACE OWNER Ronald Moats
ADDRESS Lumberport, WV
MINERAL RIGHTS OWNER L. C. Hickman, et al
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Mike Underwood
ADDRESS Rt. 2, Salem
PERMIT ISSUED 11/5/87
DRILLING COMMENCED 11/12/87
DRILLING COMPLETED 11/17/87

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	177'		
9 5/8			
8 5/8		1566	to surface
7			
5 1/2			
4 1/2		5321	400 sks
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 5391 feet Rotary ___ / Cable Tools _____
Water strata depth: Fresh 80,225 feet; Salt _____ feet
Coal seam depths: 530 590-594 Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Alexander, Benson Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 146 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 1530 psig (surface measurement) after _____ 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

21 1987

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

Alexander Sand 80/100 5000#
20/40 30000#

510 bb1 SLF

Benson Sand 80/100 5000#
20/40 30000#

510 bb1 SLF

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fr and salt water, coal, oil and
Fill			0	5	
Sand & Shale			5	50	
Sand			50	80	
Sand & Shale			80	192	
Shale & Red Rock			192	225	
Sand			225	260	
Red Rock			260	590	
Coal			590	594	
Red Rock & Shale			594	800	
Sand & Shale			800	927	
Red Rock			927	1050	
Sand & Shale			1050	1944	
Big Lime			1944	2008	
Big Injun			2008	2084	
Sand & Shale			2084	2568	
Gordon Stray			2568	2584	
Sand & Shale			2584	2644	
Gordon			2644	2700	
Sand & Shale			2700	2792	
4th Sand			2792	2796	
Sand & Shale			2796	4872	
Benson			4872	4882	
Sand & Shale			4882	5150	
✓ Alexander			5150	5250	
Sand & Shale			5250	5391TD	
✓ Gamma Ray					
Big Lime			1944	2008	
Big Injun			2008	2084	
Gordon Stray			2568	2584	
Gordon			2644	2700	
4th Sand			2792	2796	
Benson			4872	4882	
Alexander			5150	5250	

(Attach separate sheets as necessary)

Scott Oil Company
Well Operator
By: Daniel Wright
Date: December 1, 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
encountered in the drilling of a well."

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017-3608

FORM WW-2B

Page ___ of ___

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

- 1) Well Operator: Scott Oil Company 44315, 4, 252
- 2) Operator's Well Number: S-695, L. E. Hickman 3) Elevation: 980'
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Benson/Alexander 409
- 6) Proposed Total Depth: 5300' feet
- 7) Approximate fresh water strata depths: 48, 881
- 8) Approximate salt water depths: 1403
- 9) Approximate coal seam depths: 42, 360
- 10) Does land contain coal seams tributary to active mine? Yes / No /
From Dodd - 3120, 3128, 3443, 3448
- 11) Proposed Well Work: Drill + Stimulate
- 12)

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CASING AND TUBING PROGRAM

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE INTERVALS	FOOTAGE INTERVALS	FOOTAGE INTERVALS
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4			390 390	390	To Surface By 38 CSR 18-11.3 11.72
Fresh Water						
Coal						
Intermediate	8 5/8				1580	By 38 CSR 18-11.1 to surface
Production	4 1/2				5300	By 38 CSR 18-11.1 500 sks
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond 50K Blanket Agent
 (Type)

235
1176