

CODE

CARD

PLOT

11,300'

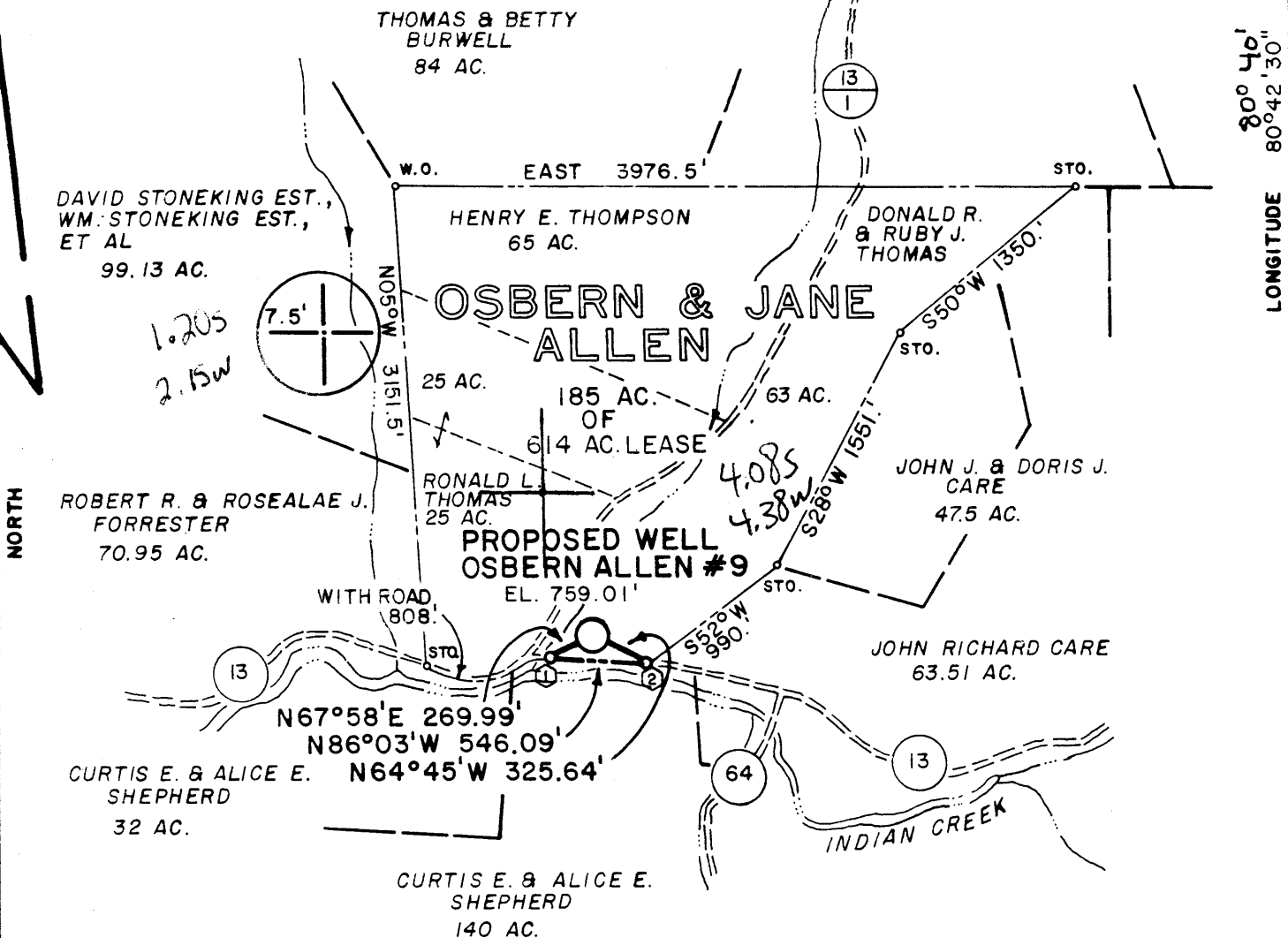
LATITUDE 39°27'30"

39°30'

WELL TIES

- ① STO. FND. AT MOUTH OF WALNUT FORK
- ② ELM STUMP FOUND

NOTE: THERE ARE NO WELLS WITHIN 2500'



MAGNETIC REFERENCE TIES

OSBERN ALLEN #9 TO C.G.S.C. VENT FOR PIPELINE S66°08'W 172.53'
 OSBERN ALLEN #9 TO FENCE POST S80°07'E 165.02'

FILE NO. MSES 85-627

DRAWN BY SARC

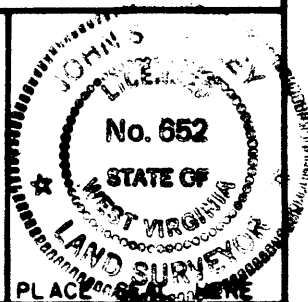
SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1 PART IN 200

PROVEN SOURCE OF ELEVATION INT. TYLER CO. RTS. 13 & 13/1; 300' SW LOC.; EL. 763.'

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 MINES.

(SIGNED) John A. Bailey
 R.P.E. _____ L.L.S. 652



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



DATE APRIL 1, 19 85
 OPERATOR'S WELL NO. OSBERN ALLEN #9
 API WELL NO. 47-095-1103
 STATE COUNTY PERMIT

Department of Mines
 Oil & Gas Division

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X)

LOCATION: ELEVATION 759.01' WATER SHED INDIAN CREEK
 DISTRICT McELROY S COUNTY TYLER
 QUADRANGLE CENTER POINT, WV 1961 (1976) 286 022 NW1

SURFACE OWNER DONALD R. & RUBY J. THOMAS ACREAGE 63 AC.
 OIL & GAS ROYALTY OWNER OSBERN ALLEN & JANE ALLEN LEASE ACREAGE 614.
 LEASE NO. _____

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 ALEXANDER ESTIMATED DEPTH 5300'
 WELL OPERATOR Quaker State Oil Refining Corp. DESIGNATED AGENT CARL J. CARLSON
 ADDRESS P.O. BOX 1327 ADDRESS P.O. BOX 1327
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

MAY 20 1985

DPT-Alex 3-C. B. Moses (94)



Date November 8, 1985
Operator's
Well No. #9
Farm OSBERN ALLEN
API No. 47-095-1103

WR-35

JAN 30 1986

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 759' Watershed Indian Creek
District: McElroy County Tyler Quadrangle Center Point 7.5'

COMPANY OUAKER STATE OIL REFINING CORPORATION

ADDRESS P.O. Box 1327; Parkersburg, WV 26101

DESIGNATED AGENT Samuel F. Barber

ADDRESS P.O. Box 1327; Parkersburg, WV 26101

SURFACE OWNER Donald R. & Ruby Thomas

ADDRESS Wellsburg, WV 26070

MINERAL RIGHTS OWNER Osbern & Jane Allen

ADDRESS Tyler County, WV

OIL AND GAS INSPECTOR FOR THIS WORK

Robert Lowther ADDRESS Middlebourne, WV 26149

PERMIT ISSUED May 13, 1985

DRILLING COMMENCED June 07, 1985

DRILLING COMPLETED June 20, 1985

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON 6/20 - Plugged Back. Plugs @ 5050' & 4825'

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	971'	971'	300 Sx
7			
5 1/2			
4 1/2	2457'	2457'	300 Sx
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5029 feet

Depth of completed well 5210' feet Rotary XX / Cable Tools _____

Water strata depth: Fresh N/A feet; Salt 918 feet

Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Big Injun Pay zone depth 1730-1832' feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 30 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 400 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

FEB 10 1986
(Continue on reverse side)

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

Perforated from ^{DJUN} 1730-1832' with 12 holes.

Frac'd with 300 bbls water; 33,600# sand, 288,000 SCF nitrogen.
 Breakdown @ 600 psi. Treated @ 2800 psi. Avg. Rate 26 BPM
 I.S.I.P. @ 2260 psi.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Silt & shale			0	421	
Sand			421	525	
Silt & shale			525	806	
Sand			806	871	
Silt & shale			871	918	
Salt sands			918	1374	
Shale			1374	1610	
Little Lime			1610	1630	
Shale			1630	1646	
Big Lime			1646	1714	
Sand <i>Big Lime</i>			<i>1714</i>	1917	Gas 1714-1750
Shale			1917	2065	
Weir			2065	2131	
Shale			2131	2259	
Berea			2259	2283	
Shale			2283	2474	
Gordon			2474	2530	Gas
Shale			2530	3172	
Warren			3172	3252	
Shale			3252	4370	
Riley			4370	4411	
Shale			4411	4827	
Benson			4827	4832	
Shale			4832	5029	
Alexander			5029	5112	
Shale			5112	5205	TOTAL DEPTH

5205
 4832
373-expl. Hg

(Attach separate sheets as necessary)

OUAKER STATE OIL REFINING CORPORATION
 Well Operator

By: Jeffrey W. Hill Jeffrey W. Hill
 Date: November 8, 1985 Geologist

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."



1) Date: APRIL 15, 19 85
 2) Operator's Well No. OSBERN ALLEN #9
 3) API Well No. 47 -095- 1103
 State County Permit

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

- 4) WELL TYPE: A Oil / Gas XX /
 B (If "Gas", Production XX / Underground storage / Deep / Shallow XX /)
- 5) LOCATION: Elevation: 759' Watershed: INDIAN CREEK
 District: MC ELROY County: TYLER Quadrangle: CENTER POINT 7.5'
- 6) WELL OPERATOR QUAKER STATE OIL REFINING CORP. 7) DESIGNATED AGENT CARL J. CARLSON
 Address P.O. Box 1327 Address P.O. BOX 1327
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name ROBERT LOWTHER Name NOT KNOWN AT THIS TIME
 Address GENERAL DELIVERY Address
MIDDLEBOURNE, WV 26149 (304) 758-4764
- 10) PROPOSED WELL WORK: Drill XX / Drill deeper / Redrill / Stimulate /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, ALEXANDER
- 12) Estimated depth of completed well, 5191' feet
 13) Approximate trata depths: Fresh, 9' feet; salt, 159' feet.
 14) Approximate coal seam depths: 436' Is coal being mined in the area? Yes / No XX /
- 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
Fresh water	8 5/8"	H-40	24	XX		450'	450'	C.T.S.		Sizes
Coal										
Intermediate										
Production	4 1/2"	J-55	9.5	XX		5191'	5191'	EST. 250 SX		Depths set
Tubing	2"	J	4.5	XX			5191'			
Liners										Perforations: Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-095-1103 Date MAY 13 1985

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. 3) 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 MAY 13 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
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Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File

OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	<u>Date</u>	<u>Date(s)</u>
Application received		
Well work started	''	''
Completion of the drilling process	''	''
Well Record received	''	''
Reclamation completed	''	''

OTHER INSPECTIONS

Reason: _____

Reason: _____