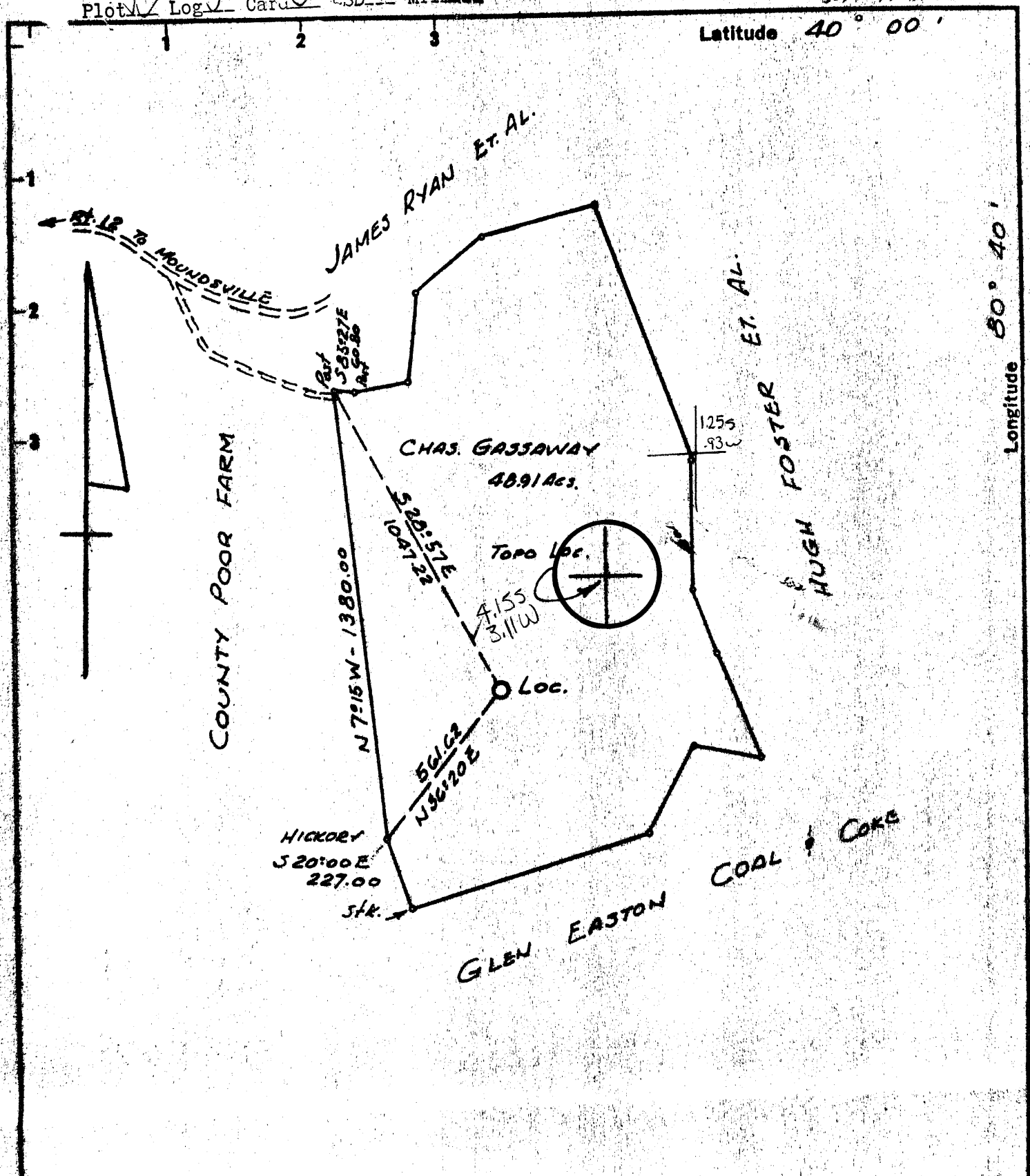


39 57' 30"

6-11-71-2000

Plot Log Card GSD Mflm

Latitude 40° 00'



80° 42' 30"

Longitude 80° 40'

New Location
 Drill Deeper
 Abandonment
 12-29-71

Minimum Error of Closure 1 IN 2500
 Source of Elevation U.S.G.S ELEV. 1358' TOP KNOB N.E. OF WELL LOC.

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company FACE, PREBLE & POOLE INC.
 Address 820-COMMERCE SQUARE CHARLESTON, W.VA.
 Farm CHAS. GASSAWAY
 Tract _____ Acres 48.91 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1231.8
 Quadrangle W.VA., PA., O., CAMERON NW
 County MARSHALL District WASHINGTON
 Engineer N. L. Sefton
 Engineer's Registration No. 1832
 File No. _____ Drawing No. _____
 Date 3-27-71 Scale 1" = 400'

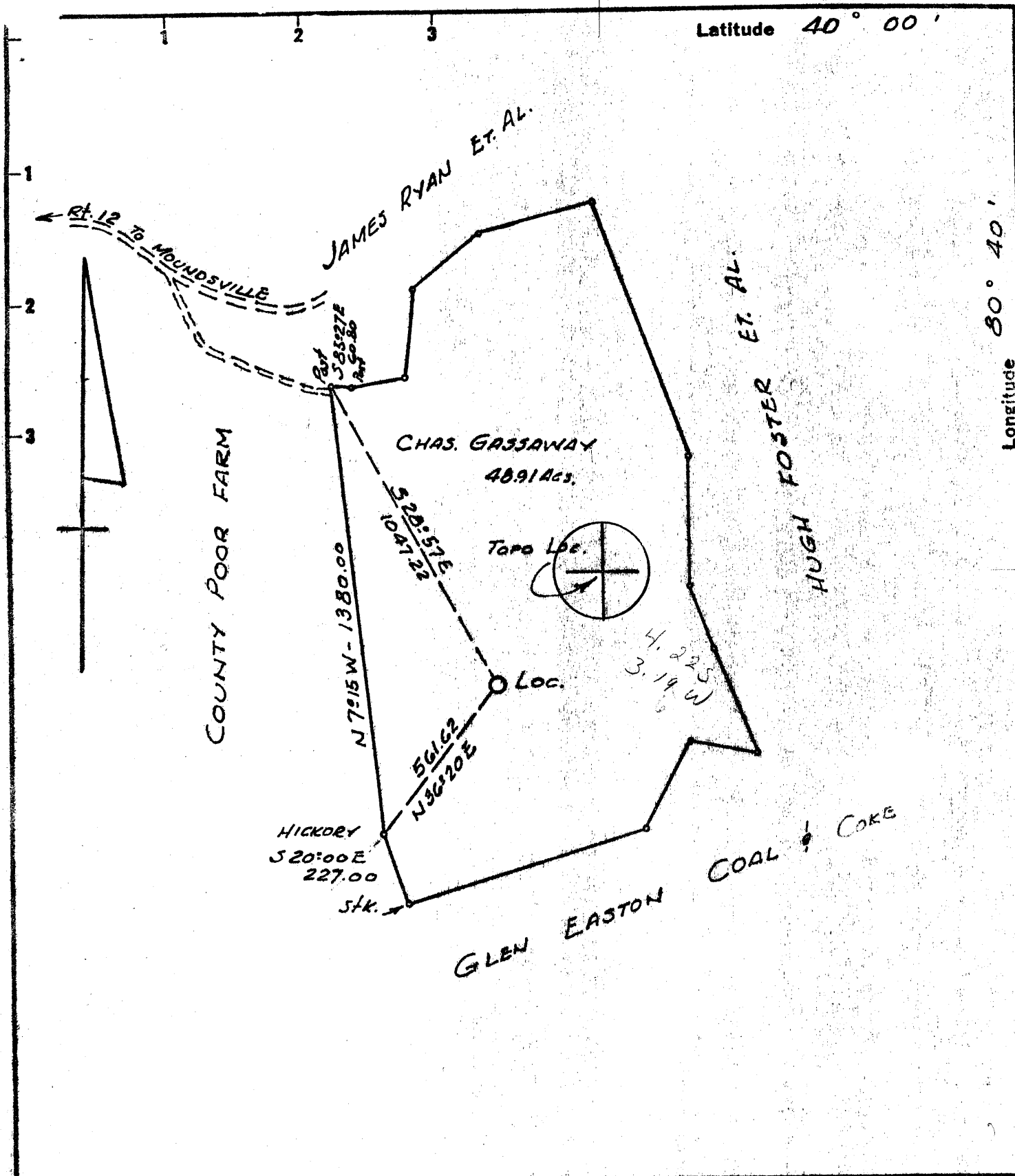
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. Mara-546-P

+ 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.

JAN 11 1972



New Location
 Drill Deeper
 Abandonment

Minimum Error of Closure 1 IN 2500
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STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. Mar-546

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JAN 14 1972

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

County Cameron
Permit No. MARS-546

WELL RECORD

Oil or Gas Well Dry (KIND)

Company Pace, Preble & Poole, Inc.
Address 820 Commerce Square, Charleston, W.Va.
Farm Charles Gassaway Acres 48.91
Location (waters) _____
Well No. _____ Elev. 1231.8
District Washington County Marshall
The surface of tract is owned in fee by Charles Gassaway
RFD #1, Grandview Rd.
Address Moundsville, W.Va.
Mineral rights are owned by Charles Gassaway
RFD #1, Grandview Rd. Address Moundsville, W.Va.
Drilling commenced 10/19/71
Drilling completed 12/15/71
Date Shot _____ From _____ To _____
With _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer <u>Larken</u>
16			"Upside Down"
13-3/8	79	46	Size of <u>6-1/8 O.D.</u>
10-3/4	701'@ 693	701'@ 693	Depth set <u>1652</u>
8 1/4	1130'@1122	342' & 103'	Used w/2" upset tbg to test 3rd salt sand.
6 3/4 7"	1640'@1627	424'	Perf. top _____
8 1/4 7"	Monument	10'	Perf. bottom _____
4 1/2			Perf. top _____
3			Perf. bottom _____
2Upset tbg.	1652	None	Perf. top _____
Liners Used			Perf. bottom _____

Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume 106 MCF & Water Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil Show _____ bbls., 1st 24 hrs.
WELL ACIDIZED (DETAILS) No
WELL FRACTURED (DETAILS) No

Attach copy of cementing record.
CASING CEMENTED 10-3/4 SIZE 693 No. Ft. 11/2/71 Date
Amount of cement used (bags) 180
Name of Service Co. Lawson Oil & Gas Well Cementing Co.
COAL WAS ENCOUNTERED AT 324 FEET _____ INCHES
650-660 FEET _____ INCHES FEET _____ INCHES
1170-1175 FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) _____
ROCK PRESSURE AFTER TREATMENT _____ HOURS
Fresh Water Show 160'; 280' exhausted _____ Feet
Salt Water 1615-inc.1627-1642 Feet _____
Producing Sand _____ Depth _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
LITHOLOGY BASED ON GAMMA LOG, SAMPLES AND DRILLER'S LOG:							
Red Rock			0	30			
Shale	Gray		30	80			
Red Rock			80	85			
Shale	Gray		85	159		160	Show
Sand			159	172	Water		
Red Rock			172	183			
Shale	Gray		183	202			
Sand			202	211			
Shale	Gray		211	223			
Sand			223	229			
Shale	Gray		229	268			
Lime			268	285	Water	280	Exhausted
Shale	Gray		285	324			
Coal			324	328			
Shale	Gray		328	338			
Lime & Shale			338	441			
Coal			441	445			
Shale	Gray		445	466			
Sand			466	490			
Shale	Gray		490	524			
Lime			524	650			
Coal & Shale			650	660			
Lime			660	688			
Shale			688	700			
Lime			700	712			
Shale	Gray		712	758			
Sand			758	774			
Shale	Gray		774	785			
Red Rock			785	896			

Hole Size
15" .. 0 - 79
13" .. 79 - 693
10" .. 693-1122
8" .. 1122-1627
6" .. 1627-2455

Formation	Color	Hard or Soft	Top 2	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			896	904	Show Gas	890 - 900	Small
Red Rock			904	964			
Sand			964	978			
Shale	Gray		978	990			
Red Rock			990	1005			
Low Run	Shaly		1005	1017			
Shale	Gray		1017	1104			
Sand			1104	1130			
Shale	Gray		1130	1170			
Coal			1170	1175			Drillers
Shale	Gray		1175	1360	1777	1807	
Shale	Black		1360	1380	1232	1232	
Shale	Gray		1380	1460	545	575	
Sand			1460	1470			
Shale	Gray		1470	1500		Por. 1823	
Sand			1500	1510		1232	
Shale	Gray		1510	1534		591	
Sand			1534	1562			
Shale	Gray		1562	1604			
Salt Sand			1604	1708	Gas	1610	6/10 W-2" (106 MCF)
Shale			1708	1734	Water	1615	
Maxon			1734	1746	Water	1627 - 42	Increased to within 600' from top of hole.
Sandy Shale			1746	1766			Porosity (Log)
Sand			1766	1777			
Big Lime			1777	1790	Gas & Water	1660-1708	
Sandy Limestone			1790	1807			
Limy Sandstone			1807	1813			
Sandstone, Shaley			1813	1823			
Sandstone			1823	1894	Oil, Show	1863-1873 (1868-1878)	Show (wet on Log Corrected to Log)
Shale			1894	1918			
Sandstone			1918	2032			
Siltstone & Shale			2032	2374			
Area, Siltstone			2374	2381			Tight, poorly developed.
Shale			2381	2455			
			2455	2450	T.D. Logger		
				2450	T.D. Driller		
CHRONOLOGICAL SEQUENCE OF EVENTS:							
10/19/71	Spudded well.						
10/-/71	Ran 79' of 13-3/8" casing. (46' left in well - pulled 33'.)						
11/1/71	Ran 701' of 10-3/4" casing at 693'. (701' cemented and left in well.)						
11/2/71	Cemented 10-3/4" casing with 180 sacks of regular cement (Lawson).						
11/-/71	Ran 1130' of 8" casing at 1122' (445' left in well - 342' and 103' - pulled 685').						
11/15/71	Gas at 1610 and water at 1615.						
11/16/71 -	Tested gas bubbling through water (8" by 2" swedge nipple), tested 6/10 water in 2" -						
11/17/71	106 MCF. Pressure built up to 75// in 35 minutes & 8" sprung leak releasing pressure.						
11/18/71	Ran 1640' of 7" casing at 1627 (424' left in well - pulled 1216').						
12/15/71	T.D. 2450 (Drillers), 2455 (Logger).						
12/15/71	Ran Logs: Gamma Ray, Density, Induction, Caliper (Basin Surveys).						
	Gamma Ray - 2" & 5" - 100 to 2446						
	Density - 2" & 5" - 1644 to 2455						
	Induction - 5" - 1644 to 2000						
	Caliper - 5" - 1644 to 2452						
	NOTE: Induction & Caliper logs indicate 7" run at 1644.						
	Porosity present in 3rd Salt Sand from 1662-1708 and in Big Injun from 1875 to 1879 and 1886 to 1894.						
12/16/71	Bailed well through 7" casing. Filled hole from 2455 to 1830 with mud. Set brush bridge with rock and 2 sacks of cement on top from 1830 to 1800.						
12/17/71 -	Swabbed well through 7" casing. Gas and water both from swabbing, but water would						
12/18/71	drown well out and fill back to within 500' from top of well. Shut in well for 17 hours overnight from 12/17/71-12/18/71 with 2" by 8" swedge nipple and "Demco" gate valve. No pressure on well after shut in and gas would blow off in 2 minutes.						
12/21/71	Ran 2" upset tubing with "Larkin" upside down packer at 1652 to test zone from 1662-1708.						
12/22/71 -	Swabbed well through 2" tubing to 1630. Water and gas back from swabbing and water						
12/23/71	would fill up to within 500' from top of hole.						

Date January 13, 1972

APPROVED [Signature], Owner

By [Signature] (Title)

Formation	Color	Hard or Soft	Top 2 A	Bottom	Oil, Gas or Water	Depth Found	Remarks
RESULTS:							
1. Zone in Big Injun from 1875 to 1879 and 1886 to 1894 wet from Induction Log.							
2. Zone in 3rd Salt Sand from 1662-1708 had gas and water, but could not be separated.							
3. Analysis of swab water indicated R _w to be .240 rather than .05, the latter being generally used in calculating water saturations.							
12/24/71							Released packer and pulled 2" tubing.
12/28-12/29/71							Attempted to pull 7" casing. Ripped 7" at 1540, 1340 and finally successfully at 1216 (1640' of 7" run at 1627 - 424' left in well and 1216' pulled).
12/30-12/31/71							Attempted to pull 8" casing. Ripped 8" at 1050, 950, 850 and finally successfully at 780. (1130' of 8" run at 1122 - pulled 685' and left 445 in well - 342' from 780 to 1122 and 5 joints or 103' above cement plug from 685 to 785.) 5 joints of 8" parted and lost when attempting to pull approximately 550 of 8" after cement plug from 685 to 785 had been set and left overnight.
12/28/71							Plugged Well (Lawson Cementing):
		2455-1830		Mud			
		1830-1800		Brush bridge, rock, 2 sacks cement.			
		1800-1220		Gel			
		1220-1150		Cement plug.			
		1150-785		Gel			
		785-685		Cement plug.			
		685-10		Gel and 10" (701' of 10" run at 693 and cemented in).			
		10-0		Cement and 7" stand pipe.			
DRY HOLE - PLUGGED AND ABANDONED.							

Date January 13, 1972

APPROVED [Signature], Owner

By [Signature]
(Title)