

MINIMUM ERROR OF CLOSURE $\frac{1}{350}$

SOURCE OF ELEVATION U.S.G.S. BM - ELEV. 881 - LOCATED ON
RIGHT FORK ARNOLD CREEK

New Location
 Drill Deeper
 Abandonment

"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 HARVEY L. STARR
 Address 1204 - 16TH ST., PARKERSBURG, W. VA.
 Farm JAMES NUTTER (ISSAC DILLEY)
 Tract _____ Acres 33.7 Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 997.5'
 Quadrangle HOLBROOK, W. VA. - NE
 County DODDRIDGE District WEST UNION
 Engineer Warren S. Frank
 Engineer's Registration No. 3688
 File No. _____ Drawing No. _____
 Date APRIL 10, 1964 Scale 1" = 300'

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

WELL LOCATION MAP
 FILE NO. D-169-D

+ 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.



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

Quadrangle Holbrook, W. Va.

WELL RECORD

Permit No. DOD-169-D

Oil or Gas Well Dry
(KIND)

Company Harvey L. Starr
Address 920 Market St., Parkersburg, W. Va.
Farm Issac Dilley Acres 33.7
Location (waters) Right Fork Arnold Creek
Well No. 1 Elev. 997.5'
District West Union County Doddridge
The surface of tract is owned in fee by James Nutter
Rt. #3, West Union Address West Virginia
Mineral rights are owned by Britton Heirs
Address _____

Drilling commenced April 14, 1964
Drilling completed April 28, 1964
Date Shot _____ From _____ To _____
With _____
Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10			Size of
8 1/4			
6 3/4	1580'		Depth set
5 3/16	2070'		
3	2552'	2552'	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 3" SIZE 2552 No. Ft. 4-29-64 Date

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

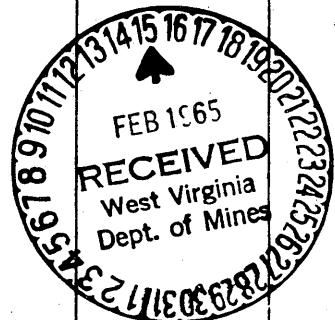
WELL FRACTURED May 2, 1964 - Halliburton

RESULT AFTER TREATMENT 20,000 Gas and small show of oil

ROCK PRESSURE AFTER TREATMENT 410 lbs.

Fresh Water 0 Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	10			
Sand			10	44			
Red Rock			44	49			
Slate			49	54			
Red Rock			54	110			
Slate			110	115			
Red Rock			115	140			
Slate			140	152			
Red Rock			152	165			
Slate			165	169			
Red Rock			169	210			
Line			210	222			
Slate			222	240			
Red Rock			240	256			
Slate			256	261			
Red Rock			261	302			
Line & Shells			302	310			
Line			310	351			
Sand			351	399	Water	351 to 357	
Slate			399	406			
Red Line			406	416			
Slate			416	423			
Red Rock			423	454			
Sand			454	471			
Red Rock			471	483			
Sand			483	514			



Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate			514	610			
Sand			610	633			
Lime			633	685			
Slate			685	700			
Gray Lime			700	745			
Slate			745	801			
Red Rock			801	875			
Lime			875	895			
Red Rock			895	918			
Sand			918	955			
Slate			955	993			
Red Rock			993	1094			
Sand			1094	1104			
Shale			1104	1115			
Lime			1115	1130			
Sand			1130	1170			
Slate			1170	1187			
Sand			1187	1235			
Lime			1235	1285			
Sand			1285	1305			
Lime			1305	1334			
Sand			1334	1401			
Slate			1401	1423			
Sand			1423	1473			
Slate			1473	1498			
Lime			1498	1510			
Sand			1510	1574			
Slate			1574	1594			
Slate & Shale			1594	1652			
Sand			1652	1676			
Brown Slate			1676	1698			
Sand			1698	1772			
Slate & Shells			1772	1819			
Sand			1819	1829			
Slate			1829	1844			
Red Lime			1844	1895			
Little Lime			1895	1916			
Slate			1916	1919			
Sand			1919	1936			
Big Lime			1936	1997			
Big Injun Sand			1997	2058	Gas	2007' to 2023'	
Slate & Shells			2058	2134			
Slate			2134	2190			
Lime			2190	2214			
Sand			2214	2220			
Slate			2220	2264			
Slate & Shells - Black			2264	2331			
Lime			2331	2356			
Sand			2356	2367			
Slate			2367	2436			
Lime			2436	2474			
Gas Sand			2474	2478	Gas		
Slate			2478	2501			
Sand			2501	2506	Gas		
Shale			2506	2552	Total Depth		
To be P. & A.							

Date February 15, 1965

Harvey L. Starr, Owner

Harvey L. Starr
(Title)

LAWSON OIL & GAS WELL CEMENTING CO., Inc. (1A)

P. O. BOX 1726 • PARKERSBURG, W. VA.

No. 1676

DATE APRIL 29-64	CUSTOMER'S ORDER NO.	TRUCK CALLED OUT DATE TIME 4-29 11:00 AM	ON LOCATION DATE TIME 4-29 4:30 PM	JOB BEGAN DATE TIME 4-29 5:00 PM	JOB COMPLETED DATE TIME 4-29 6:30 AM
WELL NUMBER #1	FARM NO. ISSAK SMITH	PLACE ARNOLDS CREEK	COUNTY DODDRIDGE	STATE W.VA	
WELL OWNER H.L. STARR	CONTRACTOR CLARENCE POWELL		MAILING ADDRESS 1204 16TH ST. PARKERSBURG, W.VA		

Owner, operator or agent states the well is in condition for the service job to be performed and submits the following data:

TYPE OF JOB (✓) ONE	CASING	HOLE DATA	TUB. or DRILL PIPE	CEMENT G PAKER	FLOATING EQUIPMENT
SURFACE	SIZE 3 1/2	BORE SIZE 4 7/8	SIZE	SIZE	FLOAT SHOE ✓
INTERMEDIATE	WEIGHT 9.2	NEW OLD	TYPE	TYPE	GUIDE SHOE
PRODUCTION ✓	DEPTH 2569	DEPTH	WEIGHT	WEIGHT	FLOAT COLLAR
SQUEEZE	NEW ✓	CABLE TOOLS X	TOTAL DEPTH	DEPTH SET	OTHER EQUIPMENT 3 Cont.
PUMPING	USED	ROTARY			
PLUG BACK	TYPE J-53				
GROUTING					
OTHER (write in)					

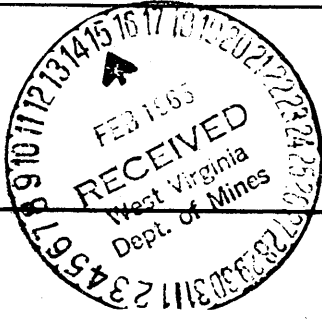
REMARKS By Servicemen

It is expressly understood and agreed that Lawson Cementing Co. is an independent Contractor for the said work and services and that Lawson Cementing Co. shall not be responsible or liable for damage to property of said well owner, operator or drilling contractor, including but not limited to subsurface damage. Well owner, operator or drilling contractor shall be responsible and same harmless, Lawson Cementing Co. against any liability for reservoir loss or damage, or property damage arising from a well blow out. If equipment or property of Lawson Cementing Co. are lost or destroyed at the well, the well owner, operator or drilling contractor shall either recover the same or pay for such equipment.

It is agreed that Lawson Cementing Co. shall not be bound by any agreement not herein contained, and no agent or employee of Lawson Cementing Co. has authority to vary, alter or extend the terms hereof. A mechanic's lien is hereby acknowledged on above well and equipment to secure the amount for materials and services performed thereon.

I have read and understood the terms hereof and I hereby represent that I am authorized to sign the same as agent of customer.

SIGNED WELL OWNER, OR OPERATOR <i>[Signature]</i>	CEMENT DATA	BULK	SACKED X	MIXED WT. PER GAL.
AGENT <i>[Signature]</i>	SACKS	TYPE	BRAND	% GEL, OTHER ADMIX
THIS WORK ORDER MUST BE SIGNED BEFORE WORK IS STARTED.	DATE APRIL 29-1964			
PRESSURE	PLUGS & HEADS			
CIRCULATING 100	BOTTOM TYPE			
MINIMUM 100	TOP TYPE Rubber	INVOICE SECTION	DEPTH OF JOB	2569
MAXIMUM 100	TYPE HEAD Plug Cont.	PRICE REF.	SERVICE & MATERIAL CHARGES	AMOUNT
FINAL 0	CEMENT LEFT IN CASING 5' FT.	4	BASE	265.00
BY REQUEST <input checked="" type="checkbox"/>	NECESSITY <input type="checkbox"/>	30	Sps H.E. Cement	40.00
TRUCK TYPE	MEASURED WITH LINE? Yes	10	Sps Reg	20.00
Truck Gas # 9		8	Sps BAWAGEL	28.80
SERVICEMEN		10	Sps Baroid mud	34.00
K. Church		10	606 LATEX	80.00
B. Gilman		<i>[Handwritten notes]</i>		
L. Waynard				
REMARKS:		6% INTEREST CHARGED AFTER 30 DAYS FROM DATE OF INVOICE.	SUB TOTAL	\$ 467.80
			STATE TAX	
			TOTAL	



WELL REPORT