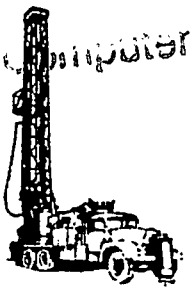
Computer Inventoried



Big E Drilling Company

Route 1 • CENTERVILLE, KS. 66014 • Phone: 913-898-4082 or 755-4509

Verde Oil Co.
8700 Crownhill, Suite 800
San Antonio, TX 78209

Larson #16-13 Allen Co., KS 33-26-20
API15-001-28,355
set 20' of 7" surface
7/10/91 - 7/11/91

Thickness of Strata	Formation	Total Depth
3	top	3
64	lime	67
17	shale	84
76	lime	160
150	shale	310
20	lime	330
90	shale	420
2	lime	422
9	shale	431
24	lime	455
35	shale	490
20	lime	510
8	shale	518
4	lime	522
54	shale	576
3	lime	579
36	shale	615
2	lime	617
166	shale	783
27	black sandy shale	810
5	gassy sand	815
42	core	857
10	sandy	867
33	shale	900
	TD	900
	TP	895.80

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CONSERVATION DIVISION

Well Name:	Larson 16-13
Location:	3795' FSL x 495' FEL Section 32, T26S, R20E
County:	Allen
State:	Kansas
Well Type:	Infield Development Oil Well
API Number:	15-001-28,355
Elevation:	GL = 1002'
Spud Date:	July 10, 1991
Total Depth Date:	July 11, 1991
Total Depth:	900'
PBTD:	883'
Status of Well:	Producing Tucker Oil Well
Contractor:	Big E Drilling, Inc. Centerville, KS
Rig:	Speedstar 1000 Air Rotary
Toolpusher:	Mike Eastwood
Mud Engineer:	None (air drilled)
Wellsite Geologist:	Jeffrey L. Dale
Hole Size:	8-3/4" @ 20' 5-1/8" @ 900'
Casing:	7" @ 20' w/5 sxs 2-7/8" @ 896' w/85 sxs
Logs:	Openhole: None Cased Hole: By Cornish Wireline GR-N: 883' - 0'
Perforations:	820' - 844' 13 shots
Stimulation:	Frac w/200# 12-30 sand, 3800# 10-12 sand, 55 bbl. gelled KCL water, 40,000 SCF nitrogen

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Wichita, Kansas

FORMATION TOPS

LARSON 16-13

Formation	Log Top	Datum	Thickness
Kansas City	84'	+918'	74'
Hepler Sand	257'	+745'	3'
Lenapah Lime	292'	+710'	6'
Wayside Sand	298'	+704'	15'
Altamont Lime	313'	+689'	15'
Pawnee Lime	427'	+575'	21'
Oswego Lime	489'	+513'	21'
Squirrell Sand	525'	+477'	68'
Bevier Coal	593'	+409'	3'
Ardmore Lime	613'	+389'	3'
Cattleman Sand	619'	+383'	76'
Bartlesville	710'	+292'	
Tucker Sand	819'	+183'	
Total Depth	900'		

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SEP 25 1991
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Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Verde Oil Company Lease Larson Well No. 16-13

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A. Ft.	Permeability, Millidarcys
			Oil	Water	Total		
1	819.5	21.9	57	32	89	968	759.
2	822.4	18.9	35	39	74	513	218.
3	824.4	18.9	31	52	83	455	161.
4	826.4	20.4	44	38	82	696	789.
5	827.4	19.6	47	37	84	715	347.
6	828.6	22.7	40	37	77	704	919.
7	830.5	21.2	40	45	85	658	963.
8	832.6	20.7	46	33	79	739	849.
9	833.4	20.9	38	33	71	616	1378.
10	835.5	19.0	43	41	84	634	366.
11	837.5	18.8	43	51	94	627	178.
12	840.5	19.1	48	39	87	711	340.
13	841.5	17.8	45	43	88	621	244.
14	843.5	19.0	33	61	94	486	284.
15	844.5	19.2	41	38	79	611	563.
16	847.5	16.7	43	42	85	557	18.
17	848.5	16.0	37	47	84	459	8.5
18	849.5	17.2	37	42	79	494	4.7

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OIL WELL PIPE RECORD

OPERATOR: Verde Oil Company

JOINTS From No.	JOINTS Thru No.	WEIGHT	GRADE	COUPLING
1	33	6.4	New	10rd

LEASE NAME: Larson
LEASE NO.:
WELL NO.: 16-13
KELLY DR. BUSHING ELEV.: 6L = 1002'
COUNTY/PARISH: Allen
STATE: Kansas
CASING SIZE: 2-7/8"
O. D. OF HOLE: 5-1/8"
DATE CASING RUN: 7-11-91

JT. NO.	FEET		JT. NO.	FEET		JT. NO.	FEET		JT. NO.	FEET		JT. NO.	FEET		JT. NO.	FEET		JT. NO.	FEET	
1	9	60	31	25	85	61			91			121			151			181			211		
2	25	75	32	32	20	62			92			122			152			182			212		
3	22	70	33	31	10	63			93			123			153			183			213		
4	22	55	34			64			94			124			154			184			214		
5	29	30	35			65			95			125			155			185			215		
6	25	15	36			66			96			126			156			186			216		
7	22	95	37			67			97			127			157			187			217		
8	23	45	38			68			98			128			158			188			218		
9	26	80	39			69			99			129			159			189			219		
10	26	80	40			70			100			130			160			190			220		
11	30	20	41			71			101			131			161			191			221		
12	28	70	42			72			102			132			162			192			222		
13	26	55	43			73			103			133			163			193			223		
14	31	65	44			74			104			134			164			194			224		
15	29	10	45			75			105			135			165			195			225		
16	32	15	46			76			106			136			166			196			226		
17	31	60	47			77			107			137			167			197			227		
18	29	75	48			78			108			138			168			198			228		
19	29	45	49			79			109			139			169			199			229		
20	30	10	50			80			110			140			170			200			230		
21	32	10	51			81			111			141			171			201			231		
22	32	00	52			82			112			142			172			202			232		
23	27	90	53			83			113			143			173			203			233		
24	25	60	54			84			114			144			174			204			234		
25	25	00	55			85			115			145			175			205			235		
26	25	50	56			86			116			146			176			206			236		
27	25	30	57			87			117			147			177			207			237		
28	25	05	58			88			118			148			178			208			238		
29	27	35	59			89			119			149			179			209			239		
30	25	25	60			90			120			150			180			210			240		
TOT. COL. 1	805	35	TOT. COL. 2	89	15	TOT. COL. 3			TOT. COL. 4			TOT. COL. 5			TOT. COL. 6			TOT. COL. 7			TOT. COL. 8		
COL. 2	89	15																				
COL. 3		70																				
COL. 4		60																				
COL. 5																						
COL. 6																						
COL. 7																						
COL. 8																						
GRAND TOTAL	895	80																				

SN
FS

CEMENTING INFORMATION

NO. SACKS: 85
TYPE: A50-50Poz
ADDITIVES: 2% gel, 2½% salt, 5% gilsonite
CIRCULATING BEFORE CEMENTING: 0 MIN.
PUMP PRESSURES → CIRCULATING: 100 LBS. DISPLACING: 300 LBS. WHEN PLUG HIT: 700 LBS. MAXIMUM: 700 LBS.
DISPLACING PUMP:
MIX AND PUMP TIME: 30 MIN.
PIPE ROTATED ☐ RECIPROCATED ☐ WORKED DURING ☐ AND/OR AFTER CEMENTING ☐
TOTAL TIME WORKED:
NO. PLUGS USED: 1
RETURNS: full
CEMENT TOP: surface
SHOE: float
COLLAR: Latchdown
STRING WEIGHT: 5733 LBS
WEIGHT ON HANGER: 5733 LBS.
SIGNATURE — COMPANY REPRESENTATIVE

SCRATCHERS

TYPE:
FROM: TO:
SPACING: NO.

CENTRALIZERS

TYPE: Bowspring
FROM: 885.60 TO: 837.15
SPACING: 785.30 NO.

JOINTS LEFT OVER (Incl Landing Jt or Cut Off)
NO. JOINTS: FOOTAGE:
WEIGHT: GRADE:
COUPLING:
RAN: JOINTS:
SET AT:
DATE AND TIME DELIVERED:
REACHED BOTTOM:

SEP 25 1991

USE BACK OF SHEET FOR REMARKS

Seating Nipple @ 813.10'

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