KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

WELL PLUGGING APPLICATION

Please TYPE Form and File ONE Copy

Form CP-1
September 2003
This Form must be Typed
Form must be Signed
All blanks must be Filled

15-001-02354-00-00

API # 15 ~~-001-91706~~ *(Identifier Number of this well).* This must be listed for wells drilled since 1967; if no API # was issued, indicate original spud or completion date March 5, 1958.

Well Operator: Verde Oil Company *(Owner / Company Name)* KCC License #: 4485 *(Operator's)*

Address: 1020 NE Loop 410 Suite 555 City: San Antonio

State: Texas Zip Code: 78209 Contact Phone: (210) 828 - 7852

Lease: Manson Well #: I-26 Sec. ~~26~~ 29 Twp. 26 S. R. 20 ☑ East ☐ West

~~NE - NE - NE~~ - SW Spot Location / QQQQ County: Allen

~~2640~~ 2696 Feet *(in exact footage)* From ☐ North / ☑ South *(from nearest outside section corner)* Line of Section *(Not Lease Line)* SESESENW

~~2700~~ 2685 Feet *(in exact footage)* From ☑ East / ☐ West *(from nearest outside section corner)* Line of Section *(Not Lease Line)*

KCC GPS

Check One: ☐ Oil Well ☐ Gas Well ☐ D&A ☐ Cathodic ☐ Water Supply Well

☐ SWD Docket # ☑ ENHR Docket # E-18163 ☐ Other:

Conductor Casing Size: Set at: Cemented with: Sacks

Surface Casing Size: 7" Set at: 20' Cemented with: Circulate to surface Sacks

Production Casing Size: 4-1/2" Set at: 830' Cemented with: Circulate to surface Sacks

List *(ALL)* Perforations and Bridgeplug Sets: Open Hole 830' - 850'

Elevation: 985' (☑ G.L. / ☐ K.B.) T.D.: 850' PBTD: 850' Anhydrite Depth: NA *(Stone Corral Formation)*

Condition of Well: ☑ Good ☐ Poor ☐ Casing Leak ☐ Junk in Hole

Proposed Method of Plugging *(attach a separate page if additional space is needed)*: Run 1" tubing to total depth. Circulate cement to surface.

RECEIVED
JUN 04 2007
KCC WICHITA

Is Well Log attached to this application as required? ☐ Yes ☑ No Is ACO-1 filed? ☐ Yes ☑ No

If not explain why? No well log is available. Core analysis is attached. It is unknown is an ACO-1 is filed.

Plugging of this Well will be done in accordance with K.S.A. 55-101 et. seq. and the Rules and Regulations of the State Corporation Commission.

List Name of Company Representative authorized to be in charge of plugging operations: Jeffrey L. Dale

Phone: (620) 754 - 3800

Address: 3345 Arizona Road City / State: Savonburg, KS 66772

Plugging Contractor: Verde Oil Company *(Company Name)* KCC License #: 4485 *(Contractor's)*

Address: 1020 NE Loop 410 Suite 555 San Antonio, TX 78209 Phone: (210) 828 - 7852

Proposed Date and Hour of Plugging *(if known?)*: March 13, 2007 4:30 PM

Payment of the Plugging Fee (K.A.R. 82-3-118) will be guaranteed by Operator or Agent

Date: March 12, 2007 Authorized Operator / Agent: *(Signature)*

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

* Well already plugged - KCC DS

PTS 63

Kepley Well Service, LLC
19245 Ford Road
Chanute, KS 66720

Invoice

Date	Invoice #
3/13/2007	719

Bill To

Cementing - Verde Oil
3345 Arizona Road
Savonburg, Kansas 66772

Campbell Lease I-26

Quantity	Description	Rate	Amount
1	Pump Truck	500.00	500.00T
2	Vacuum Truck	85.00	170.00T
90	Cement	8.75	787.50T
	Sales Tax	7.30%	106.40

Total $1,563.90

OILFIELD RESEARCH LABORATORIES

• REGISTERED ENGINEERS •

813 EAST SIXTH
OKMULGEE, OKLAHOMA
PHONE: 1486

Chanute, Kansas

536 N. HIGHLAND
CHANUTE, KANSAS
PHONE: 728

March 5, 1958

I-26

Oilfield Management Corporation, Inc.
P. O. Box 356
Chanute, Kansas

Gentlemen:

Enclosed herewith is the report of the analysis of the Cable Tool core taken from the Manson-Jordan Lease, Well No. I-26, Allen County, Kansas, and submitted to our laboratory on February 25, 1958.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. McElrea

Carl L. McElrea

CLM:cb

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Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Oilfield Management Corp., Inc. Lease Manson-Jordan Well No. I-26

Location

Section 29 Twp. 26S Rge. 20E County Allen State Kansas

Name of Sand	Bartlesville
Top of Core	810.0
Bottom of Core	826.5
Top of Sand (According to driller)	809.0
Bottom of Pay Sand	826.0
Total Feet of Permeable Sand	13.0
Total Feet of Floodable Sand	12.2

Distribution of Permeable Sand:

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 15	0.9	0.9
15 - 200	1.9	2.8
200 - 300	2.7	5.5
300 - 400	3.3	8.8
400 - 500	3.7	12.5
500 & above	0.5	13.0

Average Permeability Millidarcys	317.0
Average Percent Porosity	22.4
Average Percent Oil Saturation	42.8
Average Percent Water Saturation	44.6
Average Oil Content, Bbls./A. Ft.	751.
Total Oil Content, Bbls./Acre	10,115.
Average Percent Oil Recovery by Laboratory Flooding Tests	11.9
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.	212.
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre	2,582.
Total Calculated Oil Recovery, Bbls./Acre	3,750.
Casing point ~~Packer Setting~~, Feet	810.0
Viscosity, Centipoises @	
A. P. I. Gravity, degrees @ 60 °F	
Elevation, Feet	

The above averages are for that part of the cored section extending from the casing point to the top of the cement plug.

The sand was cored in salt water. This core was sampled and the samples were sealed in cans by a representative of our laboratory.

The depths given in this report are with reference to a point one foot above ground level.

FORMATION CORED

The detailed log of the formation cored is as follows:

Depth Interval, Feet	Description
810.0 - 810.2	Dark brown fine grained micaceous shaley sandstone.
810.2 - 811.0	Dark brown fine grained micaceous sandstone.
811.0 - 811.5	Dark brown fine grained micaceous slightly shaley sandstone.
811.5 - 813.6	Dark brown fine grained micaceous slightly carbonaceous sandstone.
813.6 - 814.1	Brown fine grained micaceous conglomeratic sandstone.
814.1 - 814.5	Brown fine grained micaceous slightly conglomeratic sandstone.
814.5 - 819.0	Dark brown fine grained micaceous carbonaceous sandstone.
819.0 - 819.3	Dark brown fine grained micaceous slightly conglomeratic sandstone.
819.3 - 820.0	Dark brown fine grained micaceous sandstone.
820.0 - 820.7	Shale.
820.7 - 821.0	Hard gray carbonaceous sandstone.
821.0 - 823.0	Dark brown fine grained micaceous carbonaceous sandstone.
823.0 - 826.0	Brown to dark fine grained micaceous carbonaceous sandstone.
826.0 - 826.2	Brown fine grained micaceous carbonaceous sandstone.
826.2 - 826.5	Shale.

Coring was started at a depth of 810.0 feet in dark brown fine grained micaceous shaley sandstone and completed at 826.5 feet in shale. This core shows a total of 16.2 feet of sandstone. For the most part, the pay is made up of dark brown fine grained micaceous carbonaceous sandstone.

PERMEABILITY

For the sake of distribution, the core was divided into two sections. The weighted average permeability of the upper and lower sections is 315.9 and 467.0 millidarcys respectively; while that of the pay sand, or that part of the cored section extending from the casing point to the top of the cement plug, is 317.0 (See Table III). By observing the data given on the coregraph, it is noticeable that the sand has a rather irregular permeability profile. The permeability of the sand varies from 1.7 to a maximum of 1,013 millidarcys.

PERCENT SATURATION & OIL CONTENT

The pay sand in this core shows a good weighted average percent oil saturation, namely, 42.8. The weighted average percent oil saturation of the upper and lower sections is 40.8 and 46.7 respectively. The weighted average percent water saturation of the upper and lower sections is 45.6 and 43.8 respectively; while that of the pay sand is 44.6 (See Table III). This gives an overall weighted average total fluid saturation of 87.4 percent.

The weighted average oil content of the upper and lower sections is 718 and 794 barrels per acre foot respectively; while that of the pay sand is 751. The total oil content, as shown by this core, is 11,152 barrels per acre of which 10,115 barrels are in the pay sand section (See Table III).

LABORATORY FLOODING TESTS

The pay sand in this core responded rather well to laboratory flooding tests, as a total recovery of 2,582 barrels of oil per acre was obtained from 12.2 feet of sand. The weighted average percent oil saturation was reduced from 43.4 to 31.5, or represents an average recovery of 11.9 percent. The weighted average effective permeability of the samples is 15.02 millidarcys, while the average initial fluid production pressure is 13.1 pounds per square inch (See Table V).

By observing the data given in Table IV, you will note that of the 15 samples tested, all produced water and 14 oil. This indicates that approximately 93 percent of the sand represented by these samples is floodable pay sand. The tests also show that the sand has a fairly uniform effective permeability.

CONCLUSION

From a study of the enclosed data, we believe that an efficient waterflood, within the vicinity of this well, will recover approximately 3,750 barrels of oil per acre, or an average of 307 barrels of oil per acre foot from the 12.2 feet of floodable pay sand in the interval extending from the casing point to the top of the cement plug. In calculating this recovery, the following facts and assumptions were employed:

1. Shrinkage factor, percent 5
2. Primary oil production, percent 8
3. True water saturation, percent 35
4. Residual oil saturations were determined from laboratory flooding tests.
5. An allowance was made for oil lost during coring and for permeability distribution.
6. No allowance was made for sweep efficiency.

The results of the core analysis indicate that the floodable pay sand extends from a depth of 810.2 to 826.0 feet. The pay sand has a good oil saturation, a fairly high water saturation and rather uniform effective permeability. The pay sand has good effective permeability, therefore, no difficulty should be encountered in forcing it to take water.

It is recommended that the casing be set and cemented at a depth of 810.0 feet and that the hole be plugged back to a depth of 824.5 feet.

Oilfield Research Laboratories

RESULTS OF PERMEABILITY TESTS

TABLE I

Company Oilfield Management Corp., Inc. Lease Manson-Jordan Well No. I-26

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.
			Ft.	Cum. Ft.	
1	810.4	435.	0.4	0.4	174.00
2	810.9	234.	0.4	0.8	93.60
3	811.4	114.	0.5	1.3	57.00
4	811.9	145.	0.6	1.9	87.00
5	812.4	388.	0.5	2.4	194.00
6	812.9	252.	0.5	2.9	126.00
7	813.4	250.	0.5	3.4	125.00
8	813.8	1.7	0.5	3.9	0.85
9	814.4	14.	0.4	4.3	5.60
10	814.9	357.	0.6	4.9	214.00
11	815.4	398.	0.5	5.4	199.00
12	815.9	398.	0.5	5.9	199.00
13	816.4	467.	0.5	6.4	233.50
14	816.9	170.	0.5	6.9	85.00
15	817.4	434.	0.5	7.4	217.00
16	817.9	495.	0.5	7.9	247.50
17	818.4	675.	0.5	8.4	337.50
18	818.9	206.	0.4	8.8	82.50
19	819.6	442.	0.7	9.5	310.00
20	820.9	Imp.	0.3	9.8	0.00
21	821.4	314.	0.6	10.4	188.20
22	821.9	288.	0.5	10.9	144.00
23	822.4	460.	0.5	11.4	230.00
24	822.9	200.	0.4	11.8	80.00
25	823.4	347.	0.6	12.4	208.00
26	823.9	407.	0.6	13.0	244.00
27	824.5	116.	0.4	13.4	46.40
28	824.8	1,013.	0.5	13.9	506.50
29	825.4	760.	0.9	14.8	684.00

Oilfield Research Laboratories

RESULTS OF SATURATION TESTS

TABLE II

Company Oilfield Management Corp., Inc. Lease Manson-Jordan Well No. I-26

Sat. No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls./A. Ft.	Feet of Core		Total Oil Content Bbls./Acre
			Oil	Water	Total		Ft.	Cum. Ft.	
1	810.1	22.7	41	49	90	722	0.2	0.2	144
F-1	810.3	24.0	34	-	-	634	0.8	1.0	507
2	811.1	22.8	40	41	81	708	0.5	1.5	354
3	812.1	23.2	37	50	87	666	1.1	2.6	733
4	813.1	22.2	38	45	83	655	1.0	3.6	655
5	814.0	16.4	31	55	86	394	0.5	4.1	197
F-5	814.2	21.5	37	-	-	618	0.4	4.5	248
6	815.1	22.4	45	46	91	782	1.1	5.6	860
7	816.1	22.7	44	38	82	775	1.0	6.6	775
8	817.1	22.9	47	43	90	835	1.0	7.6	835
9	818.1	23.6	44	47	91	806	1.4	9.0	1,129
10	819.1	23.5	41	46	87	747	1.0	10.0	747
11	821.1	23.4	48	42	90	872	0.6	10.6	523
12	822.1	23.6	56	35	91	1,028	1.4	12.0	1,440
13	823.1	19.9	40	48	88	618	0.6	12.6	372
14	824.1	19.4	44	49	93	662	1.0	13.6	662
15	825.1	21.8	41	48	89	694	1.4	15.0	971
							Total -	- - - -	11,152

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Oilfield Management Corp., Inc. Lease Mans Jordan Well No. I-26

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, - Millidarcys	Permeability Capacity Ft. x Md.
810.0 - 820.0	10.5	315.9	3,318.05
821.0 - 824.5	13.0	317.0	4,117.05

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
810.0 - 820.0	10.0	22.7	40.8	45.6	718	7,184
821.0 - 826.0	5.0	21.7	46.7	43.8	794	3,968
810.0 - 824.5	13.5	22.4	42.8	44.6	751	10,115

RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

Company Oilfield Management Corp., Inc. Lease Manson-Jordan Well No. I-26

Sample No.	Depth, Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation			Volume of Water Recovered cc*	Effective Permeability Millidarcys**	Initial Fluid Production Pressure Lbs./Sq./In.
			%	Bbls./A. Ft.	%	Bbls./A. Ft.	% Oil	% Water	Bbls./A. Ft.			
1	810.3	24.0	34	634	8	149	26	64	485	66	13.50	10
2	811.1	22.7	40	704	12	211	28	67	493	166	4.70	20
3	812.1	22.9	37	657	9	160	28	61	497	119	13.45	10
4	813.1	22.0	38	649	5	85	33	61	564	145	13.46	10
5	814.2	21.5	37	618	3	50	34	67	568	95	5.23	25
6	815.1	22.4	45	782	11	191	34	58	591	192	17.49	10
7	816.1	22.8	44	779	13	230	31	57	549	135	16.15	10
8	817.1	22.7	47	828	15	264	32	62	564	100	8.78	10
9	818.1	23.3	44	796	12	217	32	60	579	135	15.87	10
10	819.1	23.6	41	751	15	275	26	64	476	204	25.90	10
11	821.1	23.2	48	864	13	234	35	57	630	115	19.58	10
12	822.1	23.4	56	1,018	22	400	34	56	618	186	23.85	10
13	823.1	20.2	39	612	0	0	39	56	612	101	27.48	5
14	824.1	19.2	44	655	7	104	37	60	551	127	2.82	20
15	825.1	21.6	41	687	4	67	37	56	620	198	59.10	5

Notes: cc—cubic centimeter.

*—Volume of water recovered at the time of maximum oil recovery.

**—Determined by passing water through sample which still contains residual oil.

Oilfield Research Laboratories

SUMMARY OF LABORATORY FLOODING TESTS

TABLE V

Company Oilfield Management Corp., Inc. Lease Manson-Jordan Well No. I-26

Depth Interval, Feet	810.2 - 820.0	821.0 - 826.0	810.0 - 824.5
Feet of Core Analyzed	9.3	4.4	12.2
Average Percent Porosity	22.9	21.8	22.7
Average Percent Original Oil Saturation	41.3	47.4	43.4
Average Percent Oil Recovery	10.8	11.6	11.9
Average Percent Residual Oil Saturation	30.5	35.8	31.5
Average Percent Residual Water Saturation	61.4	57.2	60.4
Average Percent Total Residual Fluid Saturation	91.9	93.0	91.9
Average Original Oil Content, Bbls./A. Ft.	731.	811.	766.
Average Oil Recovery, Bbls./A. Ft.	192.	204.	212.
Average Residual Oil Content, Bbls./A. Ft.	539.	607.	554.
Total Original Oil Content, Bbls./Acre	6,809.	3,562.	9,343.
Total Oil Recovery, Bbls./Acre	1,788.	898.	2,582.
Total Residual Oil Content, Bbls./Acre	5,021.	2,664.	6,761.
Average Effective Permeability, Millidarcys	14.58	29.70	15.02
Average Initial Fluid Production Pressure, p.s.i.	12.5	12.5	13.1

NOTE: Only those samples which recovered oil were used in calculating the above averages.