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KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1
September 1999
Form Must Be Typed

Operator: License # 5447
Name: OXY USA Inc.
Address: P.O. Box 2528
City/State/Zip: Liberal, KS 67905
Purchaser: Regency
Operator Contact Person: Vicki Carder
Phone: (620) 629-4200
Contractor: Name: Cheyenne Drilling Co., Inc.
License: 5382
Wellsite Geologist: NA

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl, Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:
Operator: _____
Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. To Enhr./SWD
 Plug Back _____ Plug Back Total Depth _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Enhr.?) _____ Docket No. _____
12/26/03 12/28/03 01/13/04
Spud Date or _____ Date Reached TD _____ Completion Date or
Recompletion Date _____ Recompletion Date _____

API No. 15 - 093-21745-0000
County: Kearny
E/2 - SE - NW - SW Sec 12 Twp. 24 S. R. 35W
1740 feet from (S) N (circle one) Line of Section
1250 feet from E (W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW (SW)
Lease Name: Garden City F Well #: 4
Field Name: Hugoton Chase
Producing Formation: Chase
Elevation: Ground: 2938 Kelly Bushing: 2943
Total Depth: 2800 Plug Back Total Depth: 2758
Amount of Surface Pipe Set and Cemented at 912 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

ALT I WITHIN 13-07
Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content 18600 mg/l ppm Fluid volume 775 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp, _____ S. R. East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 6702, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

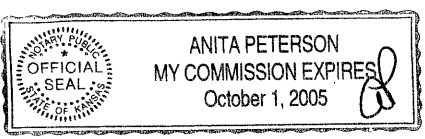
Signature: Vicki Carder
Title: Capital Project Date April 15, 2004
Subscribed and sworn to before me this 15th day of April
20 04
Notary Public: Anita Peterson
Date Commission Expires: Oct. 1, 2005

KCC Office Use Only
Yes Letter of Confidentiality Attached
If Denied, Yes Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution



✓

X

Side Two

Operator Name: OXY USA Inc. Lease Name: Garden City F Well #: 4
 Sec. 12 Twp. 24 S. R. 35W East West County: Kearny

Instructions: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken Yes No
(Attach Additional Sheets)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
(Submit Copy)
 List All E. Logs Run: Tracer Scan Neutron

Log Formation (Top), Depth and Datum Sample
 Name Top Datum
 Hollenberg 2422 521
 Herrington 2446 497
 Paddock 2464 479
 Krider 2477 466
 Odell 2489 454
 Winfield 2511 432
 Gage 2532 411
 (See Side Three)

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set(in. O.D.)	Weight Lbs./ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Conductor					C		
Surface	12 1/4	8 5/8	24	912	C	280	35/65 Poz/C + Additives
					C	150	Class C + Additives
Production	7 7/8	4 1/2	11.6	2798	C	180	Class C + Additives
					H	185	50/50 Poz/H + Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing	-			
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug off Zone	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	2423-2434, 2446-2463	Acidize - 1000 gls 15% HCL	
		Frac - 97,404 gls WF 130 & 80Q, 50,000#	
		12/20 Brady Sand	
4	2566-2586, 2511-2530, 2500-2503, 2478-2489		

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	2626		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr.	Producing Method			
02/05/04	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil BBLs	Gas Mcf	Water Bbls	Gas-Oil Ratio Gravity
		103	26	

Disposition of Gas Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
(If vented, Submit ACO-18) Other (Specify) _____

METHOD OF COMPLETION _____
 Production Interval _____

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Side Three

Operator Name: OXY USA Inc. Lease Name: Garden City F Well #: 4
Sec. 12 Twp. 24 S. R. 35W East West County: Kearny

<u>Name</u>	<u>Top</u>	<u>Datum</u>
Towanda	2569	374
Base Towanda	2606	337
Ft. Riley	2629	314

374
337
314

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Date	12/28/03
Company	OXY
Job Number	2205544499
Well Name	Garden City
Well Number	F-4
County	Kearny
State	KS

Schlumberger

Pipe Size	4 1/2	
Pipe Weight	11.6	10.5
Pipe Depth	2802	
Shoe Length	40	
Insert Depth	2762	
Hole Size	7 7/8	
Hole Depth	2800	

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 R.T.
 12/28/03

1st System	
180 sacks	Class C
2.62 yield	D79,D46,D29
12 weight	
15.2 water	65
cubic ft.	472
height	2070
bbls	84

157	Pipe Volume	43
	Annular Volume	114
	Total Cement	135
	Total Water	139

Pipe Factor	0.0155	0.0159
Annular Factor	0.0406	
Height Factor	4.3898	

2nd System	
185 sacks	50/50 POZ/H
1.55 yield	D20,D42,D53,D112
13.8 weight	D65,M117,D46
7.1 water	31
cubic ft.	287
height	1259
bbls	51.1

Casing lift 2044
 Cement lift 797

3rd System	
sacks	
yield	
weight	
water	0
cubic ft.	0
height	0
bbls	0

Test 2000

20 Chemical Wash

5 Spacer

84 Lead 12

51 Tail 13.8

42.8 Displacement

1500 Maximum Pressure

4th System	
sacks	
yield	
weight	
water	0
cubic ft.	0
height	0
bbls	0

Pump Time @ 5 BPM 36 MIN

Schlumberger Private

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Cementing Service Report

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Customer OXY USA, INC	Job Number 2205544499
---------------------------------	---------------------------------

Well GARDEN CITY F-4		Location (Legal) SEC 12-T24S-R36W		Schlumberger Location Perryton, TX		Job Start 2003-Dec-28	
Field		Formation Name/Type		Deviation		Well MD	
County KEARNY CO		State/Province KANSAS		BHP psi		Well TVD 2,800 ft	
Well Master: 0630543324		API / UWI:		Bit Size 7.88 in		Well MD 2,800 ft	
Rig Name		Drilled For		Service Via		Casing/Liner	
Offshore Zone		Well Class		Well Type		Depth, ft	
Drilling Fluid Type		Max. Density		Plastic Viscosity		Size, in	
Service Line		Job Type		Perforations/Open Hole		Weight, lb/ft	
Max. Allowed Tubing Pressure		Max. Allowed Ann. Pressure		Wellhead Connection		Grade	
Service Instructions		Cementing		Cem Prod Casing		Thread	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure:		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input checked="" type="checkbox"/>		Shoe Type:	
No. Centralizers:		Top Plugs: 1		Bottom Plugs: 1		Shoe Depth:	
Cement Head Type:		Single		Stage Tool Type:		Tool Type:	
Job Scheduled For:		Arrived on Location:		Leave Location:		Stage Tool Depth:	
Date		Time		Treating Pressure		Flow Rate	
2003-Dec-28		23:41		0		0.0	
2003-Dec-28		23:41		0		0.0	
2003-Dec-28		23:41		0		0.0	
2003-Dec-28		23:42		27		1.1	
2003-Dec-28		23:42		2101		0.0	
2003-Dec-28		23:42		2060		0.0	
2003-Dec-28		23:42		1996		0.0	
2003-Dec-28		23:43		1845		0.0	
2003-Dec-28		23:43		1808		0.0	
2003-Dec-28		23:44		92		0.0	
2003-Dec-28		23:45		64		0.0	
2003-Dec-28		23:45		64		0.0	
2003-Dec-28		23:45		64		0.0	
2003-Dec-28		23:46		54		0.0	
2003-Dec-28		23:46		252		4.8	
2003-Dec-28		23:47		325		5.4	
2003-Dec-28		23:47		334		5.4	
2003-Dec-28		23:47		352		5.5	

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Start Job

Pressure Test Lines

Reset Total, Vol = 0.52 bbl

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Well		Field			Service Date		Customer		Job Number
GARDEN CITY #F-4					03362-Dec-28		OXY USA, INC.		2205544499
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0	
2003-Dec-28	23:48	343	5.6	8.53	9.6	0	0	0	
2003-Dec-28	23:48	348	5.8	8.53	12.5	0	0	0	
2003-Dec-28	23:49	352	5.9	8.53	15.4	0	0	0	
2003-Dec-28	23:49	362	6.0	8.53	18.3	0	0	0	
2003-Dec-28	23:50	375	6.0	9.88	21.3	0	0	0	
2003-Dec-28	23:50	357	6.2	8.97	24.4	0	0	0	
2003-Dec-28	23:51	371	6.3	8.84	27.5	0	0	0	
2003-Dec-28	23:51	380	6.3	8.89	27.8	0	0	0	
2003-Dec-28	23:51								End Wash
2003-Dec-28	23:51	307	4.7	8.63	30.6	0	0	0	
2003-Dec-28	23:52	330	6.1	9.43	33.5	0	0	0	
2003-Dec-28	23:52								Reset Total, Vol = 34.71 bbl
2003-Dec-28	23:52	334	6.2	12.25	34.7	0	0	0	
2003-Dec-28	23:52								Start Mixing Lead Slurry
2003-Dec-28	23:52	334	6.2	11.79	1.8	0	0	0	
2003-Dec-28	23:52	339	6.2	11.72	1.9	0	0	0	
2003-Dec-28	23:53	302	4.8	10.76	4.9	0	0	0	
2003-Dec-28	23:53	284	4.8	11.34	7.3	0	0	0	
2003-Dec-28	23:54	284	4.8	11.69	9.7	0	0	0	
2003-Dec-28	23:54	270	4.8	12.62	12.1	0	0	0	
2003-Dec-28	23:55	243	4.9	11.88	14.6	0	0	0	
2003-Dec-28	23:55	201	4.8	12.23	17.0	0	0	0	
2003-Dec-28	23:56	169	4.8	12.21	19.4	0	0	0	
2003-Dec-28	23:56	151	4.9	12.11	21.9	0	0	0	
2003-Dec-28	23:57	110	4.8	11.98	24.3	0	0	0	
2003-Dec-28	23:57	87	4.8	11.89	26.7	0	0	0	
2003-Dec-28	23:58	87	4.8	11.90	29.1	0	0	0	
2003-Dec-28	23:58	82	4.8	11.90	31.5	0	0	0	
2003-Dec-28	23:59	82	4.8	11.94	33.9	0	0	0	
2003-Dec-28	23:59	82	4.8	11.98	36.3	0	0	0	
2003-Dec-29	0:00	87	4.8	12.03	38.7	0	0	0	
2003-Dec-29	0:00	87	4.8	12.01	41.1	0	0	0	
2003-Dec-29	0:01	87	4.8	12.01	43.5	0	0	0	
2003-Dec-29	0:01	96	5.2	12.01	46.0	0	0	0	
2003-Dec-29	0:02	110	5.2	11.99	48.6	0	0	0	
2003-Dec-29	0:02	101	5.2	11.98	51.2	0	0	0	
2003-Dec-29	0:03	119	5.3	11.95	53.9	0	0	0	
2003-Dec-29	0:03	101	5.2	11.93	56.5	0	0	0	
2003-Dec-29	0:04	82	4.8	11.92	58.9	0	0	0	
2003-Dec-29	0:04	87	4.8	11.90	61.3	0	0	0	
2003-Dec-29	0:05	82	4.8	11.93	63.8	0	0	0	
2003-Dec-29	0:05	87	4.8	11.98	66.2	0	0	0	
2003-Dec-29	0:06	87	4.8	12.01	68.6	0	0	0	
2003-Dec-29	0:06	82	4.8	11.98	71.0	0	0	0	
2003-Dec-29	0:07	87	4.8	12.01	73.4	0	0	0	
2003-Dec-29	0:07	87	4.8	12.07	75.8	0	0	0	
2003-Dec-29	0:08	82	4.8	12.24	78.2	0	0	0	
2003-Dec-29	0:08	87	4.8	12.43	80.2	0	0	0	
2003-Dec-29	0:08								End Lead Slurry
2003-Dec-29	0:08	82	4.8	12.47	80.5	0	0	0	
2003-Dec-29	0:08								Reset Total, Vol = 80.48 bbl
2003-Dec-29	0:08	78	4.8	12.50	0.1	0	0	0	
2003-Dec-29	0:08								Start Mixing Tail Slurry
2003-Dec-29	0:08	78	4.8	12.62	0.4	0	0	0	

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Well		Field		Service Date		Customer			Job Number
GARDEN CITY #F-4				03962-Dec-28		OXY USA, INC.			2205544499
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message
	24 hr clock	psi	bbl/min	lb/gal	bbl	0	0	0	
2003-Dec-29	0:09	87	4.8	13.46	2.5	0	0	0	
2003-Dec-29	0:09	124	5.4	13.78	5.1	0	0	0	
2003-Dec-29	0:10	165	5.4	14.14	7.8	0	0	0	
2003-Dec-29	0:10	165	5.4	13.60	10.5	0	0	0	
2003-Dec-29	0:11	133	5.4	13.60	13.2	0	0	0	
2003-Dec-29	0:11	137	5.4	13.67	15.9	0	0	0	
2003-Dec-29	0:12	146	5.4	13.66	18.6	0	0	0	
2003-Dec-29	0:12	114	5.4	13.74	21.3	0	0	0	
2003-Dec-29	0:13	133	5.4	13.85	24.0	0	0	0	
2003-Dec-29	0:13	179	5.4	13.94	26.7	0	0	0	
2003-Dec-29	0:14	160	5.4	13.94	29.4	0	0	0	
2003-Dec-29	0:14	156	5.4	13.85	32.1	0	0	0	
2003-Dec-29	0:15	146	5.4	13.73	34.8	0	0	0	
2003-Dec-29	0:15	119	5.4	13.74	37.5	0	0	0	
2003-Dec-29	0:16	124	5.4	13.77	40.2	0	0	0	
2003-Dec-29	0:16	128	5.4	13.82	42.9	0	0	0	
2003-Dec-29	0:17	133	5.4	13.82	45.7	0	0	0	
2003-Dec-29	0:17	128	5.4	13.91	48.4	0	0	0	
2003-Dec-29	0:18	179	5.4	13.98	51.1	0	0	0	
2003-Dec-29	0:18	160	5.4	14.01	53.8	0	0	0	
2003-Dec-29	0:19	142	5.4	13.96	56.6	0	0	0	
2003-Dec-29	0:19	174	5.4	13.96	59.3	0	0	0	
2003-Dec-29	0:20	-14	0.0	14.91	60.6	0	0	0	
2003-Dec-29	0:20								End Tail Slurry
2003-Dec-29	0:20	-14	0.0	14.84	60.6	0	0	0	
2003-Dec-29	0:20	-18	0.0	10.72	60.6	0	0	0	
2003-Dec-29	0:20								Reset Total, Vol = 60.61 bbl
2003-Dec-29	0:20	-18	0.0	5.24	60.6	0	0	0	
2003-Dec-29	0:29	82	3.0	8.53	0.6	0	0	0	
2003-Dec-29	0:29	92	5.4	8.53	2.7	0	0	0	
2003-Dec-29	0:30	92	5.3	8.54	5.4	0	0	0	
2003-Dec-29	0:30	165	5.4	8.53	8.1	0	0	0	
2003-Dec-29	0:31	206	5.5	8.53	10.8	0	0	0	
2003-Dec-29	0:31	288	5.5	8.53	13.6	0	0	0	
2003-Dec-29	0:32	325	5.5	8.53	16.3	0	0	0	
2003-Dec-29	0:32	398	5.5	8.53	19.1	0	0	0	
2003-Dec-29	0:33	459	5.6	8.53	21.9	0	0	0	
2003-Dec-29	0:33								Drop Top Plug
2003-Dec-29	0:33	453	5.6	8.53	22.1	0	0	0	
2003-Dec-29	0:33	467	5.6	8.53	22.2	0	0	0	
2003-Dec-29	0:33								Start Displacement
2003-Dec-29	0:33	499	5.6	8.55	24.7	0	0	0	
2003-Dec-29	0:34	569	5.7	8.54	27.6	0	0	0	
2003-Dec-29	0:34	632	5.8	8.54	30.4	0	0	0	
2003-Dec-29	0:35	682	5.8	8.54	33.3	0	0	0	
2003-Dec-29	0:35	595	2.9	8.53	36.1	0	0	0	
2003-Dec-29	0:36	604	2.9	8.53	37.6	0	0	0	
2003-Dec-29	0:36	632	3.0	8.53	39.0	0	0	0	
2003-Dec-29	0:37	673	2.9	8.53	40.5	0	0	0	
2003-Dec-29	0:37	687	2.9	8.53	42.0	0	0	0	
2003-Dec-29	0:38	1286	0.0	8.53	42.9	0	0	0	
2003-Dec-29	0:38	1263	0.0	8.53	42.9	0	0	0	
2003-Dec-29	0:38	1259	0.0	8.53	42.9	0	0	0	
2003-Dec-29	0:38								Bump Top Plug

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End Tail Slurry

Reset Total, Vol = 60.61 bbl

Drop Top Plug

Start Displacement

Bump Top Plug

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Well		Field			Service Date		Customer		Job Number	
GARDEN CITY #F-4					03362-Dec-28		OXY USA, INC.		2206544499	
Date	Time	Treating Pressure	Flow Rate	Density	Volume	0	0	0	Message	
	24 hr clock	psi	bb/min	lb/gal	bb	0	0	0		
2003-Dec-29	0:38	1250	0.0	8.53	42.9	0	0	0		
2003-Dec-29	0:38								End Displacement	
2003-Dec-29	0:39								Reset Total, Vol = 42.92 bbl	
2003-Dec-29	0:39	1250	0.0	8.53	42.9	0	0	0		
2003-Dec-29	0:39	1250	0.0	8.53	0.0	0	0	0		
2003-Dec-29	0:39	110	0.0	8.53	0.0	0	0	0		
2003-Dec-29	0:40	-14	0.0	8.53	0.0	0	0	0		
2003-Dec-29	0:40	-18	0.0	8.53	0.0	0	0	0		
2003-Dec-29	0:40								End Job	
Post Job Summary										
Average Pump Rates, bpm					Volume of Fluid Injected, bbl					
Slurry	N2	Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2		
5	0	0	6		135	0	25			
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum	Final	Average	Bump Plug to	Breakdown	Volume			Density		
			1200		bbl			lb/gal		
Avg. N2 Percent	Designed Slurry Volume		Displacement		Mix. Water Temp		<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume		10 bbl
%	135 bbl		42.8 bbl		°F		<input type="checkbox"/> Washed Thru Perfs	To		ft
Customer or Authorized Representative			Schlumberger Supervisor							
Fillpot, Gregg			Ahrends, Timothy							
			<input type="checkbox"/> Circulation Lost			<input checked="" type="checkbox"/> Job Completed				

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Customer: Oxy USA Job #: 2205544498
 Well name: Garden City Job Type: Surface
 Well #: F-4 Bit Size: 12 1/4
 County: Kearney Well Depth: 915
 State: Kansas Stage: Primary

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System 1

280 sks	35/65 Poz/C+6%D20+2%S1+.25 pps D29
2.17 :yield	108 bbl cmt
12.07 :H2O	80 bbl H2O
12.2 wt.	608 cu. ft.
934 ann Psi	1472 ann. ft

System 2

150 sks	Class C+2%S1+.25 pps D29
1.34 :yield	36 bbl cmt
6.3 :H2O	23 bbl H2O
14.8 wt.	201 cu. ft.
0 ann. Psi	487 ann. ft

Mud / Nitrogen

0 bbl of	9.3 lb/gal	mud
0 scf/bbl	0 cooldown	nitrogen
0 scf downhole	0	height ann.
0 scf total used	0 psi ann.hyd.	

Mud Removal/Spacer

10 bbl of	Fresh Water	8.33 lb/gal
136 ft ann. Height	59 psi ann. hyd.	

Pipe Data

8.625 O.D.	DV Tool	feet	
8.097 I.D.			
Csg Wt.	Feet	cap.	volume
24	905.93	0.0637	57.71 bbl
32	10	0.0609	0.61 bbl
24	0	0.0637	0.00 bbl

TD	915 feet	0.93 ft above floor
TP	915.93 feet	58.32 bbl
SJ	42.85 feet	2.73 bbl
Float @	873.08 feet	55.59 bbl

Annular Data

12.250 OH	cap.	0.1458 bbl/ft
0.0735 bbl/ft		0.4127 cuft/ft
13.6035 ft/bbl		2.4229 ft/cuft

Csg Wt. Air 22062.32 lb.
 CrossSect. Area 6.9345 sq. in.
 Bouyancy 1887 lb.
 Csg Wt. Fluid 20175 lb.
 Csg Inside Area 51.4919 sq. in.
 Csg Lift Pressure 392 psi
 Ann Hydrostatic 272 psi
 Differential 263 psi

Totals

Nitrified Mud	0 bbl with	0 scf/bbl
Fresh Water	10 bbl @	8.33 lb/gal
System 1	108 bbl @	12.2 lb/gal
System 2	36 bbl @	14.8 lb/gal
Displacement	55.6 bbl with	0 % flush
Open Hole Volume	133 bbl	
Annular Volume	67 bbl	
Total Cement	141 bbl	
Total Water	204 bbl needed	
Differential	263 psi	
Casing Lift	392 psi	
Top of Scav/Lead	0 ft	
Top of Tail	466 ft	
Total Excess	110 %	

Rig Water

Chlorides	0	PH	6
Sulfates	0	Tanin/Lignin	n/a
Iron	0	usable?	yes

Displacement Chemicals

0 % Treated Displacement		
L065	0 gal/1000	0 gal total
L064	0 gal/1000	0 gal total
F103	0 gal/1000	0 gal total
B69	0 lbs.	0 lbs total

Chemical Wash

none	0 gal needed
none	0 gal needed

Time

Stage	Vol	Rate	Minutes
N2/Mud	0	5	0
Spacer	10	5	2
Scavenger	108	5	22
Tail	36	5	7
Displace	45.6	5	9
Slowdown	10	2.5	4
Total Pump Time			64

D903 Class C
 D132 Poz
 D020 Bentonite
 S001 CaCl
 D029 Celloflake
 #N/A
 #N/A
 #N/A
 #N/A
 #N/A

Plug down @ 0945 hrs
 Lift Pressure 250 psi
 Bumped to 530 psi
 Thickening Time hrs

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ORIGINAL Cementing Service Report

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Customer OXY USA, INC.						Job Number 2205544498				
Well GARDEN CITY F-4			Location (legal) SEC 12-T24S-R36W			Schlumberger Location Perryton, TX			Job Start 2003-Dec-27	
Field		Formation Name/Type		Deviation		Bit Size	Well MD	Well TVD		
						12.3 in	915 ft	915 ft		
County KEARNY CO		State/Province KANSAS		BHP psi	BHST 90 °F	BHCT 90 °F	Pore Press. Gradient psi/ft			
Well Master: 0630543324		API / UWI:		Casing/Liner						
Rig Name	Drilled For Oil & Gas		Service Via Land		Depth, ft	Size, in	Weight, lb/ft	Grade	Thread	
					905.93	8.625	24	K55	8RD	
Offshore Zone	Well Class New		Well Type Development		10	8.63	24			
Drilling Fluid Type		Max. Density lb/gal	Plastic Viscosity cp		Depth,	Size, in	Weight, lb/ft	Grade	Thread	
Service Line Cementing	Job Type Cem Surface Casing				Perforations/Open Hole					
Max. Allowed Tubing Pressure 1000 psi	Max. Allowed Ann. Pressure psi	Wellhead Connection 8 5/8 HS&M			Top, ft	Bottom, ft	spf	No. of Shots	Total Interval ft	
Service Instructions CEMENT 8 5/8 IN SURFACE CASING WITH: 280 SKS 35/65 POZ C + 6% D20 + 2% S1 + 0.5PPS D29 150 SKS CLASS C + 2% S001 + 0.25 PPS D29									Diameter in	
					Treat Down Casing	Displacement 55.6 bbl	Packer Type None	Packer Depth 0 ft		
					Tubing Vol. bbl	Casing Vol. 58.32 bbl	Annular Vol. 67 bbl	OpenHole Vol 133 bbl		
Casing/Tubing Secured <input checked="" type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>	Casing Tools			Squeeze Job					
Lift Pressure: 250 psi	Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Shoe Type: Guide	Squeeze Type						
No. Centralizers: Top Plugs: 1	Bottom Plugs:	Shoe Depth: 906 ft	Tool Type:							
Cement Head Type: Single	Stage Tool Type: ft	Tool Depth: ft	Tail Pipe Size: in							
Job Scheduled For: 12/27/2003	Arrived on Location: 2003-Dec-27 3:00	Leave Location: 2003-Dec-27	Collar Type: Auto-Fill	Tail Pipe Depth: ft						
			Collar Depth: 863 ft	Sqz Total Vol: bbl						
Date	Time	Pressure	Density	Rate	Volume	0	0	0	Message	
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0		
2003-Dec-27	8:50	-9	8.47	0.0	0.0	0	0	0		
2003-Dec-27	8:50	-9	8.47	0.0	0.0	0	0	0		
2003-Dec-27	8:50								Pressure Test Lines	
2003-Dec-27	8:50	-9	8.47	0.0	0.0	0	0	0		
2003-Dec-27	8:51	-9	8.47	0.0	0.0	0	0	0		
2003-Dec-27	8:51	-9	8.47	0.0	0.0	0	0	0		
2003-Dec-27	8:52	-9	8.47	0.0	0.0	0	0	0		
2003-Dec-27	8:52	-9	8.47	0.0	0.0	0	0	0		
2003-Dec-27	8:53	-9	8.51	0.0	0.0	0	0	0		
2003-Dec-27	8:53	-5	8.53	0.5	0.0	0	0	0		
2003-Dec-27	8:54	1712	8.47	0.3	0.5	0	0	0		
2003-Dec-27	8:54	1282	8.47	0.0	0.5	0	0	0		
2003-Dec-27	8:55	-3859	-6.25	0.0	0.5	0	0	0		
2003-Dec-27	8:55	-5	8.47	0.0	0.5	0	0	0		
2003-Dec-27	8:56	-9	8.47	0.0	0.5	0	0	0		
2003-Dec-27	8:56	41	8.47	3.0	1.0	0	0	0		
2003-Dec-27	8:57	55	8.47	4.8	2.9	0	0	0		
2003-Dec-27	8:57	128	8.47	4.9	5.3	0	0	0		
2003-Dec-27	8:58	124	8.47	4.9	7.7	0	0	0		
2003-Dec-27	8:58	119	8.47	4.9	10.2	0	0	0		
2003-Dec-27	8:59	119	8.47	5.0	12.6	0	0	0		
2003-Dec-27	8:59	124	8.80	5.0	14.1	0	0	0		

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Well		Field			Service Date		Customer			Job Number
GARDEN CITY #F-4					03361-Dec-27		OXY USA, INC.			2205544498
Date	Time	Pressure	Density	Rate	Volume	0	0	0	Message	
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0		
2003-Dec-27	8:59								Reset Total, Vol = 14.13 bbl	
2003-Dec-27	8:59								Start Mixing Lead Slurry	
2003-Dec-27	8:59	128	8.88	5.0	0.2	0	0	0		
2003-Dec-27	8:59	133	9.21	5.0	1.0	0	0	0		
2003-Dec-27	9:00	142	10.12	5.0	3.5	0	0	0		
2003-Dec-27	9:00	146	10.69	5.1	6.0	0	0	0		
2003-Dec-27	9:01	151	11.83	5.1	8.6	0	0	0		
2003-Dec-27	9:01	146	13.05	5.1	11.1	0	0	0		
2003-Dec-27	9:02	142	13.11	5.1	13.7	0	0	0		
2003-Dec-27	9:02	119	12.76	5.1	16.3	0	0	0		
2003-Dec-27	9:03	124	12.45	5.1	18.9	0	0	0		
2003-Dec-27	9:03	156	12.55	5.2	21.5	0	0	0		
2003-Dec-27	9:04	156	12.72	5.2	24.1	0	0	0		
2003-Dec-27	9:04	151	12.83	5.2	26.6	0	0	0		
2003-Dec-27	9:05	151	12.77	5.2	29.2	0	0	0		
2003-Dec-27	9:05	151	12.60	5.2	31.9	0	0	0		
2003-Dec-27	9:06	146	12.47	5.2	34.5	0	0	0		
2003-Dec-27	9:06	137	12.47	5.2	37.1	0	0	0		
2003-Dec-27	9:07	142	12.53	5.2	39.7	0	0	0		
2003-Dec-27	9:07	133	12.53	5.2	42.3	0	0	0		
2003-Dec-27	9:08	142	12.37	5.2	45.0	0	0	0		
2003-Dec-27	9:08	128	12.36	5.3	47.6	0	0	0		
2003-Dec-27	9:09	133	12.56	5.2	50.2	0	0	0		
2003-Dec-27	9:09	133	12.37	5.3	52.8	0	0	0		
2003-Dec-27	9:10	133	12.37	5.3	55.5	0	0	0		
2003-Dec-27	9:10	133	12.53	5.3	58.1	0	0	0		
2003-Dec-27	9:11	128	12.69	5.3	60.8	0	0	0		
2003-Dec-27	9:11	137	12.77	5.3	63.4	0	0	0		
2003-Dec-27	9:12	146	12.42	5.3	66.1	0	0	0		
2003-Dec-27	9:12	124	12.70	5.3	68.8	0	0	0		
2003-Dec-27	9:13	133	12.67	5.4	71.4	0	0	0		
2003-Dec-27	9:13	137	12.52	5.3	74.2	0	0	0		
2003-Dec-27	9:14	137	12.43	5.4	76.8	0	0	0		
2003-Dec-27	9:14	137	12.39	5.3	79.5	0	0	0		
2003-Dec-27	9:15	133	12.65	5.3	82.2	0	0	0		
2003-Dec-27	9:15	142	12.70	5.4	84.9	0	0	0		
2003-Dec-27	9:16	133	12.84	5.4	87.5	0	0	0		
2003-Dec-27	9:16	114	12.66	5.3	90.2	0	0	0		
2003-Dec-27	9:17	133	12.55	5.3	92.9	0	0	0		
2003-Dec-27	9:17	124	12.57	5.3	95.6	0	0	0		
2003-Dec-27	9:18	110	12.54	5.3	98.2	0	0	0		
2003-Dec-27	9:18	114	12.58	5.3	100.9	0	0	0		
2003-Dec-27	9:19	105	12.75	5.3	103.6	0	0	0		
2003-Dec-27	9:19	110	13.33	5.3	106.2	0	0	0		
2003-Dec-27	9:19								Reset Total, Vol = 106.33 bbl	
2003-Dec-27	9:19	110	13.36	5.3	106.3	0	0	0		
2003-Dec-27	9:19	110	13.41	5.3	0.2	0	0	0		
2003-Dec-27	9:19								Start Mixing Tail Slurry	
2003-Dec-27	9:20	124	14.01	5.3	2.6	0	0	0		
2003-Dec-27	9:20	146	14.67	5.3	5.2	0	0	0		
2003-Dec-27	9:21	142	15.14	5.3	7.9	0	0	0		
2003-Dec-27	9:21	146	14.71	5.4	10.6	0	0	0		
2003-Dec-27	9:22	128	14.86	5.3	13.3	0	0	0		
2003-Dec-27	9:22	137	15.05	5.3	15.9	0	0	0		

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Well		Field				Service Date		Customer		Job Number	
GARDEN CITY #F-4						03361-Dec-27		OXY USA, INC.		2205544498	
Date	Time	Pressure	Density	Rate	Volume	0	0	0	Message		
	24 hr clock	psi	lb/gal	bbl/min	bbl	0	0	0			
2003-Dec-27	9:23	137	15.22	5.3	18.6	0	0	0	CONFIDENTIAL		
2003-Dec-27	9:23	160	15.29	5.3	21.2	0	0	0			
2003-Dec-27	9:24	142	15.17	5.3	23.8	0	0	0			
2003-Dec-27	9:24	156	15.33	5.3	26.5	0	0	0	ORIGINAL		
2003-Dec-27	9:25	160	15.64	5.2	29.2	0	0	0			
2003-Dec-27	9:25	169	15.78	5.2	31.8	0	0	0			
2003-Dec-27	9:26	160	15.78	5.2	34.4	0	0	0			
2003-Dec-27	9:26	-9	16.33	0.0	35.7	0	0	0			
2003-Dec-27	9:26								Reset Total, Vol = 35.68 bbl		
2003-Dec-27	9:26								Drop Top Plug		
2003-Dec-27	9:26	-9	16.25	0.0	0.0	0	0	0			
2003-Dec-27	9:26	-9	16.23	0.0	0.0	0	0	0			
2003-Dec-27	9:26								Start Displacement		
2003-Dec-27	9:27	-14	13.64	0.0	0.0	0	0	0			
2003-Dec-27	9:27	-14	9.31	0.0	0.0	0	0	0			
2003-Dec-27	9:28	-14	9.01	0.0	0.0	0	0	0			
2003-Dec-27	9:28	-14	9.04	0.0	0.0	0	0	0			
2003-Dec-27	9:29	-14	9.02	0.0	0.0	0	0	0			
2003-Dec-27	9:29	-14	9.02	0.0	0.0	0	0	0			
2003-Dec-27	9:30	-14	9.02	0.0	0.0	0	0	0			
2003-Dec-27	9:30	-14	9.00	0.0	0.0	0	0	0			
2003-Dec-27	9:31	-9	9.00	0.0	0.0	0	0	0			
2003-Dec-27	9:31	-9	9.01	0.0	0.0	0	0	0			
2003-Dec-27	9:32	-9	9.01	0.0	0.0	0	0	0			
2003-Dec-27	9:32	-14	9.01	0.0	0.0	0	0	0			
2003-Dec-27	9:33	-9	9.01	0.0	0.0	0	0	0			
2003-Dec-27	9:33	-9	9.01	0.0	0.0	0	0	0			
2003-Dec-27	9:34	96	9.01	5.8	0.6	0	0	0			
2003-Dec-27	9:34	92	9.08	5.8	3.4	0	0	0			
2003-Dec-27	9:35	69	8.47	5.8	6.3	0	0	0			
2003-Dec-27	9:35	64	8.47	5.8	9.2	0	0	0			
2003-Dec-27	9:36	78	8.62	5.8	12.1	0	0	0			
2003-Dec-27	9:36	92	8.54	5.8	15.1	0	0	0			
2003-Dec-27	9:37	92	8.47	5.8	18.0	0	0	0			
2003-Dec-27	9:37	110	8.49	5.8	20.9	0	0	0			
2003-Dec-27	9:38	128	8.49	5.8	23.8	0	0	0			
2003-Dec-27	9:38	142	8.47	5.8	26.7	0	0	0			
2003-Dec-27	9:39	160	8.47	5.8	29.6	0	0	0	RECEIVED		
2003-Dec-27	9:39	179	8.47	5.9	32.5	0	0	0	APR 19 2004		
2003-Dec-27	9:40	201	8.47	5.9	35.5	0	0	0	KCC WICHITA		
2003-Dec-27	9:40	215	8.47	5.9	38.4	0	0	0			
2003-Dec-27	9:41	243	8.47	5.9	41.4	0	0	0			
2003-Dec-27	9:41	266	8.47	5.9	44.3	0	0	0			
2003-Dec-27	9:42	224	8.47	3.0	47.2	0	0	0			
2003-Dec-27	9:42	197	8.47	2.1	48.4	0	0	0			
2003-Dec-27	9:43	215	8.47	2.1	49.4	0	0	0			
2003-Dec-27	9:43	224	8.47	2.1	50.5	0	0	0			
2003-Dec-27	9:44	233	8.47	2.1	51.6	0	0	0			
2003-Dec-27	9:44	229	8.47	2.1	52.6	0	0	0			
2003-Dec-27	9:45	256	8.47	2.1	53.7	0	0	0			
2003-Dec-27	9:45								Reset Total, Vol = 55.6 bbl		
2003-Dec-27	9:45	526	8.47	0.0	53.8	0	0	0			
2003-Dec-27	9:45	526	8.47	0.0	0.0	0	0	0			
2003-Dec-27	9:46	526	8.47	0.0	0.0	0	0	0			

Well		GARDEN CITY #F-4			Field		Service Date		Customer			Job Number					
							03361-Dec-27		OXY USA, INC.			2205544498					
Date	Time	Pressure	Density	Rate	Volume	0	0	0	Message								
	24 hr-clock	psi	lb/gal	bbf/min	bbf	0	0	0									
2003-Dec-27	9:46								Bump Plug								
2003-Dec-27	9:46	325	8.48	0.0	0.0	0	0	0									
2003-Dec-27	9:46	-5	8.47	0.0	0.0	0	0	0									
2003-Dec-27	9:46								Float Holding								
2003-Dec-27	9:46	-9	8.47	0.0	0.0	0	0	0									
Post Job Summary																	
Average Pump Rates, bpm						Volume of Fluid Injected, bbl											
Slurry		N2		Mud		Maximum Rate		Total Slurry		Mud		Spacer		N2			
5						6		142				10					
Treating Pressure Summary, psi						Breakdown Fluid											
Maximum		Final		Average		Bump Plug to		Breakdown		Volume		Density					
300				190		530						bbl		8.34 lb/gal			
Avg. N2 Percent		Designed Slurry Volume		Displacement		Mix Water Temp		<input checked="" type="checkbox"/> Cement Circulated to Surface?		Volume		30 bbl					
		144 bbl		55.6 bbl		°F		<input type="checkbox"/> Washed Thru Perfs		To		ft					
Customer or Authorized Representative						Schlumberger Supervisor											
Rep, Company						Ousley, John						<input type="checkbox"/> CirculationLost		<input checked="" type="checkbox"/> Job Completed			

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