OHC 2-26.96

### SAMEDAN OIL CORPORATION

12600 NORTHBOROUGH, #250 **HOUSTON, TEXAS 77067** (713) 876-6150 FAX (713) 876-6106

February 1, 1996

**Oil Conservation Division** 2040 South Pacheco PO Box 6429 Santa Fe, New Mexico 87505

Atten: William LeMay:

RE: **Exception to Rule 303-A** 

**Administrative Approval to Downhole Commingle** 

Langlie Mattix "4" Federal #1

Teague, N. Lower Pad-Blinebry (Associated)

Teague, N. Tubb (Associated) Teague, N. Drinkard-Abo

Unit Letter L, Section 4, T-23-S, R-37-E

Lea County, New Mexico

Samedan Oil Corporation requests administrative approval for the downhole commingling of the above mentioned pools.

We have enclosed the following:

- 1. Area Plat showing ownership of offsetting leases.
- 2. Plat showing acreage dedicated to the well.
- 3. Listing address and a copy of the letter of notification to offset operators and the Bureau of Land Management.
- 4. Division Form C-116 showing 24-hr productivity test from each zone.
- 5. Well History and Prognostication of future production.
- 6. Estimated BHP for each artificially lifted zone.
- 7. Fluid description of each zone.
- 8. Valves of production.
- 9. Recommended formula for allocation of production.

We appreciate your consideration in this matter. If you have any questions please call Gary Hendricks, (713) 876-6150, or myself.

Thank you,

Judy Mroneberry

### attachments

xc: OCC - Hobbs District

**BLM** 

### SAMEDAN OIL CORPORATION LANGLIE MATTIX "4" FEDERAL #1 TEAGUE NORTH FIELD LEA COUNTY, NEW MEXICO

Offset Ownership Map

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### Samedan Acreage is Shaded

### Samedan Oil Corporation Langlie Mattix "4" Federal # 1 Unit Letter P, Section 4, T-23-S, R-37-E Lea County, New Mexico Offset Ownership Map

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Sec 5	7238	

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

### State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 instruction on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

### 1000 Rio Brazos Rd., Aztec, NM 67410

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

C AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name				
30-025-32743	96314	Teague; Lower Pad-Bli N. (Assoc	:)			
Property Code	Prop	erty Name	Well Number			
16069	LANGLIE	LANGLIE MATTIX 4				
OGRID No.	Oper	Operator Name				
20153	SAMEDAN O	IL CORPORATION	3325'			

### Surface Location

1	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	L	4	23 S	37 E		1650	SOUTH	660	WEST	LEA

### Bottom Hole Location If Different From Surface

UL or lot No.	Section 1	<b>Fownship</b>	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or	Infill Con	solidation (	code Or	der No.			<u> </u>	

### NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

LOT 4 - 44.06AC	LOT 3 - 44.20AC	LOT 2 - 44.32AC	<u>LOT 1 ~ 44.46A</u> C	OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.  Signature  Judy Throneberry  Printed Name  Div Prod Clerk  Title  11/17/95  Date  SURVEYOR CERTIFICATION
3326.6' 3324.7'				I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison and that the same is true and correct to the best of my beller.  AUQUST 234.7994  Date Surveyed  Signature & Seal of Professional Surveyor  W.O. Night 94 17 1500  Certificate no. 1000 West. 676

DISTRICT I P.O. Box 1980, Hobbs, NM 68240

### State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Instruction on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

OIL CONSERVATION DIVISION

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 67410

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

[] AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name			
30-025-32743	96315	N. Teague Tubb			
Property Code	Pro	Well Number			
16069	LANGLIE	1			
OGRID No.	Ope	rator Name	Elevation		
020153	SAMEDAN (	DIL CORPORATION	3325'		

### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	4	23 S	37 E		1650	SOUTH	660	WEST	LEA

### Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint or	Infill Co	nsolidation C	ode Or	der No.				
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				OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
<u> 10T 4 - 44.06AC</u>	LOT 3 - 44.20AC	<u>lot 2 - 44.32ac</u>	<u>lot 1 - 44.46a</u> c	Signature Judy Throneberry Printed Name Div Prod Clerk Title 08/17/95 Date
3326.6' 3324.7' -660' - 3322.6'				SURVEYOR CERTIFICATION  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.  AUGUST 23, 1994  Date Surveyed O. Signature & Seal of Professional Surveyor  W.O. Num 94, 11-1500  Certificate No. JOHN W. WEST. 676  RONALD J. EIDSON, 3239

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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### DISTRICT III 1000 Rio Brasos Rd., Artec, NM 67410

### OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-32743	Pool Code 96313		
Property Code 16069 LAN		Property Name NGLIE MATTIX 4	Well Number
020153 No.	SAMEI	Operator Name  DAN OIL CORPORATION	Elevation 3325'

### Surface Location

1	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	L	4	23 S	37 E		1650	SOUTH	660	WEST	LEA

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### NOTIFICATIONS OF EXCEPTION TO RULE 303-A

### **OFSET OPERATOR**

TEXACO EXPLORATION & PRODUCTION, INC. PO Box 3109
Midland, Texas 79702

### **BUREAU OF LAND MANAGEMENT**

Bureau of Land Management PO Box 1778 Carlsbad, NM 88221-1778

### SAMEDAN OIL CORPORATION

12600 NORTHBOROUGH, #250 HOUSTON, TEXAS 77067 (713) 876-6150 FAX (713) 876-6106

**February 1, 1996** 

Texaco Exploration & Production, Inc. PO Box 3109
Midland, Texas 79702

### Gentlemen:

RE: Exception to Rule 303-A

Downhole Commingling Permit
Langlie Mattix "4" Federal Well #1
Teague, N. Lower Pad-Blinebry (Assoc)

Teague, N. Tubb (Assoc) Teague, N. Drinkard-Abo

This is to notify you of our application for Administrative approval for downhole commingling of production in the above mentioned zones for the Langlie Mattix "4" Federal Well #1. I have attached a copy of the application.

If you have any questions please contact Gary Hendricks at (713) 876-6150. If you have no objections please sign and return the enclosed letter to the New Mexico Oil Conservation Commission in the self-addressed stamped envelope as soon as possible to expedite matters. Any objections must be filed with the Commission within 20 days of the date of this letter.

Thank you,

Judy Throneberry

**Division Production Clerk** 

attachments

xc: Oil Conservation Division

Santa Fe, NM

### February 1, 1996

New Mexico Oil Conservation Commission 2040 South Pacheco PO Box 6429 Santa Fe, New Mexico 87505

ATTEN:

MR. BILL LEMAY

RE:

DOWNHOLE COMMINGLING PERMIT

This is to advise that we have been notified of Samedan Oil Corporation's application to downhole commingle the following described well in accordance with Commission Regulations:

Langlie Mattix "4" Federal Well #1

Teague, N. Lower Pad-Blinebry (Assoc)

Teague, N. Tubb (Assoc) Teague, N. Drinkard-Abo

Unit Letter L, Section 4, T-23-S, R-37-E

Lea County, New Mexico

We, as an offset operator, have no objection to the proposed down hole commingling of the above mentioned zones.

Very truly yours,

Texaco Exploration & Production, Inc

BY:

NAME:

DATE:

### SAMEDAN OIL CORPORATION

12600 NORTHBOROUGH, #250 HOUSTON, TEXAS 77067 (713) 876-6150 FAX (713) 876-6106

**February 1, 1996** 

Bureau of Land Management PO Box 1778 Carlsbad, NM 88221-1778

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Thank you,

Judy Throneberry

**Division Production Clerk** 

attachments

xc: Oil Conservation Division

Santa Fe, NM

Submit 2 copies to Appropriate District Office. DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III DISTRICT I P.O. Box 1980, Hobbs, NM 88240

## State of New Mexico Energy, Minerals and Natural Resources Department

Revised 1/1/89 Form C-116

## OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

### GAS - OIL RATIO TEST

1000 Rio Brazos Rd., Aztec, NM 87410

(See Rule 301 Rule 1116 & appropriate pool piles)	During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.  Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.  Report casing pressure in lieu of tubing pressure for any well producing through casing.	Instructions:		16069 Langlie Mattix "4" Fed   1   L   4   23S	С	WELL COCATION	Address 12600 Northborough, #250, Houston, Texas 7	Operator Samedan Oil Corporation 020153		
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(See Rule 301, Rule 1116 & appropriate pool rules.)

Telephone No.

Submit 2 copies to Appropriate
District Office.
DISTRICT 1
P.O. Box 1980, Hobbs, NM 88240 DISTRICT II
P.O. Drawer DD, Artesia, NM 88210 •
DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Revised 1/1/89 Form C-116

### GAS - OIL RATIO TEST

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Telephone No.	0   *	is true and		4750	GAS - OIL RATIO CU.FT/BBL.		

Submit 2 copies to Appropriate
District Office.
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

## State of New Mexico Energy, Minerals and Natural Resources Department

'n

Form C-116 Revised 1/1/89

## OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

GAS - OIL RATIO TEST

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Date		1 J			ABLE	DAILY		Ö
	Signature Judy Ti Printed name 2/1/96	ereby ce		24	HOURS	HENSH	O	
	Signature  Judy Throneberry,  Printed name and title  2/1/96	hereby certify that the above information omplete to the best of my knowledge and believes.		110	WATER BBLS.	PA	Completion	0
	Marry, 1	t the ab		36.4	GRAV.	701		County
	Div Prod 713 87	ove info		26	BBLS.	NG TEST	<b>(</b> 0	Lea
Teleph	od Clerk			51	M.C.F.		Spocial XX	
Telephone No.	50	is true an		1962	CU.FT/BBL	GAS - OIL	×	

### Application to Downhole Commingle Samedan Oil Corporation Langlie Mattix "4" Federal #1 Unit Letter L, Section 4, T-23-S, R-37-E Lea County, New Mexico

### **Well History**

Shown below is a history of the work performed on the Langlie Mattix "4" Federal #1. Casing and cement details can be obtained from the wellbore sketch

5-1-95	Spud well with 12 1/4" bit.
5-2-95	Set 9 5/8" casing at 1,185'. Cement with 650 sacks and circulate cement.
5-14-95	Drill to total depth of 7,151' with 7 7/8" bit.
5-17-95	Set 7" casing at 7,150' and cement with 3,400 sacks cement. TOC at 1,600'.
5-23-95	Perforate Abo zone from 6,766' to 7,092' with 107 holes.
5-25-95	Acidize Abo with 3,000 gallons 15% NEFE HCL at 5.6 BPM and 4110 psi.
5-26-95	Acidize Abo with 5,000 gallons 15% NEFE HCL at 11.5 BPM and 6,260 psi. Frac with 45,400 gallons XL gel and 20,000# sand at 29 BPM and 7,500 psi. Screen out on 4 ppg sand stage.
5-31-95	Set CIBP at 6,740'. Perforate Drinkard from 6,450' to 6,712' with 99 holes.
6-2-95	Acidize Drinkard with 3,000 gallons 15% NEFE HCL at 8 BPM and 3000 psi. Frac with 68,375 gallons XL gel and 182,000# 20/40 Ottawa sand at 32 BPM and 5700 psi.
6/30/95	Drill out CIBP at 6,740' and install artificial lift equipment. Begin pumping testing Drinkard-Abo zone.
7-16-95	Potential test in Teague, North Drinkard-Abo Pool: 24 BOPD, 165 BWPD and 51 MCFPD.
7-31-95	Last production test in Drinkard-Abo: 26 BOPD, 110 BWPD and 51 MCFPD.
8-2-95	Set CIBP at 6,400'. Perforate the Tubb 6,164' to 6,302' with 110 holes.

Application to Downhole Commingle Samedan Oil Corporation Langlie Mattix "4" Federal #1 Unit Letter L, Section 4, T-23-S, R-37-E Lea County, New Mexico Page: 2

8-3-95	Acidize Tubb with 4,000 gallons 15% NEFE HCL at 5.5 BPM and 2,700 psi.
8/4/95	Frac Tubb with 65,000 XL gel and 196,000# 20/40 Ottawa sand at 30 BPM and 2,550 psi.
8/9/95	Ran rods and pump and began pump testing Tubb zone.
8/14/95	Potential test in Teague, North Tubb (Associated) Pool: 45 BOPD, 118 BWPD and 128 MCFPD.
10/8/95	Last production test in Tubb: 6 BOPD, 11 BWPD and 61 MCFPD.
10/11/95	Set CIBP at 6,100'. Perforate Blinebry 5,690' to 5,968' with 150 holes.
10/12/95	Acidize Blinebry with 4,000 gallons 15% NEFE HCL at 6 BPM and 3,700 psi.
10/13/95	Frac Blinebry with 65,000 gals XL gel and 196,000# 20/40 Ottawa sand at 32 BPM and 2,400 psi.
10/20/95	Ran rods and pump and began pump testing Blinebry zone.
11/3/95	Potential test in Teague, North Lower Paddock-Blinebry (Associated) Pool: 33 BOPD, 132 BWPD and 86 MCFPD.
1/11/96	Current test in Blinebry: 8 BOPD, 58 BWPD and 38 MCFPD.

### Application to Downhole Commingle Samedan Oil Corporation Langlie Mattix "4" Federal #1 Unit Letter L, Section 4, T-23-S, R-37-E, Lea County, New Mexico

### Other Informational Items Required by Rule 303 D

### 6. Estimated bottomhole pressure for each zone:

Teague, North Lower Pad-Blinebry (Associated)	700 psi	(Estimated)
Teague, North Tubb (Associated)	800 psi	(Texaco Application)
Teague, North Drinkard-Abo	975 psi	(Texaco Application)

Production from all zones will be maintained in a pumped off condition. No crossflow between zones is expected to occur.

7. Texaco currently surface commingles production from all three zones in their B.F. Harrison lease located in Sections 5 and 9. Texaco has stated in their B.F. Harrison #15 Exception to Rule 303-A filing that no operational difficulties have been encountered due to incompatible fluids.

### 8. Computation of the Value of the Commingled Production

Pool	Oil Rate	Gravity	Value	<b>Total Daily Value</b>
	BPD	at 60 deg	\$/bbl	\$/day
Blinebry Associated	8	40.3	18.50	148.00
Tubb Associated	6	38.3	18.50	111.00
Drinkard/Abo	26	36.4	18.50	481.00

Currently only the Blinebry is producing so the current value of the daily production is \$148.00 per day. The commingled value is shown below. Oil produced from the well from all zones is deemed 40 degrees by the purchaser and no deductions for gravity will be incurred the commingled value is shown below:

Pool	Oil Rate	Gravity	Value	Total Daily Value
	BPD	at 60 deg	\$/bbl	\$/day
Commingled	50	37.5	18.50	925.00

### 9. Allocation of Future Production

Based on the expected producing rate after commingling, the production from the well should be allocated by the following percentages:

Pool	Oil%	Gas%
Blinebry (Associated)	20%	25%
Tubb (Associated)	15%	41%
Drinkard/Abo	65%	34%

10. Texaco offsets this acreage on all sides. Texaco has been notified of this proposal by copy of this application package.

### Samedan Oil Corporation Langlie Mattix "4" Federal #1 Summary of Production

Langlie Mattix "4" Federal #1 Unit Letter L, Sec 4, T-23-S, R-37-E

Drinkard/Abo Pool								
Month/Yr	ВОРМ	MCFPM	BWPM					
Jul-95	594	889	4497					
Aug-95	0	0	0					
Sep-95	0	0	0					
Oct-95	0	0	0					
Nov-95	0	0	0					
Totals	594	889	4497					

Tubb Pool							
Month/Yr	BOPM	MCFPM	BWPM				
Jul-95	0	0	0				
Aug-95	402	2275	2003				
Sep-95	183	1462	530				
Oct-95	66	479	128				
Nov-95	0	0	0				
Totals	651	4216	2661				

Lower Paddock/Blinebry Pool							
Month/Yr	ВОРМ	MCFPM	BWPM				
Jul-95	0	0	0				
Aug-95	0	0	0				
Sep-95	0	0	0				
Oct-95	117	329	1242				
Nov-95	709	1415	3616				
Totals	826	1744	4858				

### Application to Downhole Commingle Samedan Oil Corporation Langlie Mattix "4" Federal #1

# Prognistication of Future Zone for Blinebry, Tubb and Drinkard/Abo Zones

Twelfth	Eleventh	Tenth	Ninth	Eighth	Seventh	Sixth	Fifth	Fourth	Third	Second	First	Commingling	Month After
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27	28	29	30	သ	32	33	34	35	36	37	38	Gas	y Zone
4	4	5	G	51	Οī	5	51	(Ji	თ	တ	တ	<u></u>	Tubb :
				50									Zone
19	19	20	20	21 41	22	22	23	24	24	25	26	<u>o</u>	Drinkard//
37	38	39	40	41	43	44	45	47	48	50	51	Gas	Abo Zone
29	30	31	32	32	33	34	36	37	38	39	40	으	Total Con
108	111	115	118	122	125	129	133	137	141	146	150		nmingled

Production from all zones is estimated to decline at 30% per year after commingling.

during it's test period from August 14, 1995 to October 8, 1995 where production declined from 118 BWPD to 11 BWPD. Water production is expected to decline quickly in all zones as was noted in the Tubb zone

of production. Blinebry water production declined from 132 BWPD to 58 BWPD during the first two months

Water production is expected to fall within the guidelines of Rule 303 C (iii).

### **Samedan Oil Corporation**

Configuration After Commingling

Langlie Mattix 4 Federal #1			660' FWL and 1650' FSL
Well Name			Section 4, T-23-S, R-37-E
			Location
Lea, New Mexico			3325' GL, 3341' KB
County, State			Elevation
Gounty, Otato			Libration
	1 1	1 1 1 1	
	i i		
9 5/8" 36# J-55 casing at 1185'			
Cemented with 450 sacks Class C			
with 4% gel, 1/4# celloflake/sk and			
2% CaCl2. Tail in with 200 sacks	11		
Class C with 2% CaCl2.			
Circ 100 sacks cement		1 1 1 1	
	1		
T ( 4000)		<b> </b>	
Top of cement at 1260'	$\boldsymbol{\dashv}$	i I 📙	
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	xx	xx	
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Apple For Communication Commun	xx	xx 5690	
	xx	0	
			Blinebry Completion
<u> </u>	xx		Billiebry Completion
·	xx		
	xx	o 5968	
	xx	xx	CIBP at 6100'
	xx	xx	
	xx	xx 6164	
Marie Commission Commi	xx		
		; ; <b>,</b> ,	T. I. Commission
	xx		Tubb Completion
	xx		
	xx	0 6302	
	xx	xx	
	xx	xx	
	xx	xx	CIBP at 6400'
	xx	xx	
	xx	xx 6450	<del></del>
	xx		
			Drinkand Committee
711 004 1 55	XX	0	Drinkard Completion
7" 26# J-55 casing at 7150'	xx		
Cemented with 2800 sacks Class C	xx	0 6712	
Light with 5% salt and 1/4# Cello	xx	xx	
flake/sk. Tail in with 600 sacks	xx	xx 6766	
Class H 50/50 Poz with 2% gel, 0.6%	xx		
FLA, 0.3% dispersant and 0.3%	xx	0	Abo Completion
SMS Full circ through cement job	xx		220 Completion
Did not circulate cement. Ran	1	' ' i l	
temp svy, TOC at 1260'	XX		
temp svy, TOC at 1200	xx	xx	

### Samedan Oil Corporation

**Current Configuration** 

Langlie Mattix 4 Federal #1							660' FWL and 1650' FSL
Well Name							Section 4, T-23-S, R-37-E
							Location
Lea, New Mexico							3325' GL, 3341' KB
County, State							Elevation
	1				1 1	1	
	i						
9 5/8" 36# J-55 casing at 1185'	l l						
Cemented with 450 sacks Class C							
with 4% gel, 1/4# celloflake/sk and							
2% CaCl2. Tail in with 200 sacks							
Class C with 2% CaCl2.							
Circ 100 sacks cement							
	ľ						All .
						<u> </u>	
Top of cement at 1260'			ll		l		
Top of comone at 1200	xx		l		xx	•	
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	xx	X X	<u> </u>	ХХ	хx		CIBP at 6100'
	xx			,	хх		
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	xx	хх	Х	x x	хх		CIBP at 6400'
	хx				хх		The state of the s
	xx				хx	6450	
	xx				0		
	xx				0		Drinkard Completion
7" 26# J-55 casing at 7150'	xx				0		
Cemented with 2800 sacks Class C	xx				0	6712	
Light with 5% salt and 1/4# Cello	XX				ХX	6766	
flake/sk. Tail in with 600 sacks Class H 50/50 Poz with 2% gel, 0.6%	XX				-	6766 <u>.</u>	
FLA, 0.3% dispersant and 0.3%	xx xx				0 0		Abo Completion
SMS Full circ through cement job	XX				0		And Completion
Did not circulate cement. Ran	· xx				0	7092	
temp svy, TOC at 1260'	xx				хх	1	
	-	J			_	)	