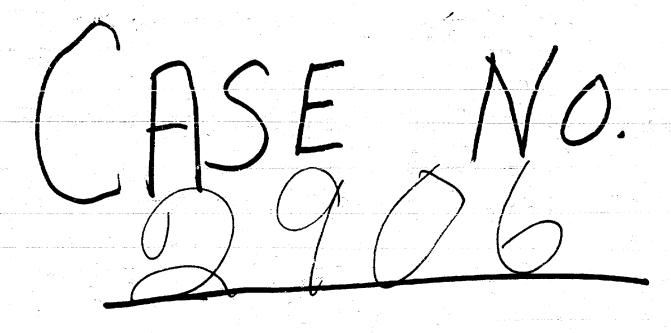
CASE 2906: Application of WESTERN
OIL FIELDS for approval of quadruple completion of GULF HILL #4.



APPlication,
Transcripts,
SMAIL Exhibits
ETC.

	COUNTYLEA	STATE N. MEX.	
	TOWNSHIP 218	RANGE 37 E	
<b>8</b> € E		Continental et al Famariss   St	natt
OIL CONST			
CONSERVATION COMMENTED INC. 1996		(G,1F)	
NO. Q	5 Continental	Western Oil Fields   4 Livingston Pan	Bme.c
	Continencal		1. Hime C
2 33		U.S. MI ECHILL	
	۵	* *	
E.L. Alexander	w.c. Hawk Sam Grave (3)	Continental et al Pan Ame	
C	ontinental	Continental et di	
		'A' 'B' 'A'	
(Gulf) N.G. Penrose			6
			Royalty
	Continental et al		
	"B		
	3 • v.s.	9 6 U.S. 8	
Price ; et.ol. ;	Hawk Sam Grave (S)	Sam Grave (5)	
	<b>K</b>		1
•	* MULTIPLE or D		

(Western Oil (Fields, Inc.)

August 6, 1963

August 6, 1963

New Mexico Oil Conservation Commission P. O. Box 791 Santa Fe, New Mexico

Attn: Mr. A. L. Porter, Jr., Secretary and Director

Dear Mr. Porter,

The Western Oil Fields, Inc. is contemplating a quadruple tubingless completion on the No. 4 Gulf Hill, located Unit S, Section 4, Township 21 South, Range 37 East.

The producing zones involved are as follows: (1) Grayburg 0il (2) Tubb Gas (3) Drinkard 0il (4) Wantz Abo 0il.

This exact combination does not exist in the pool limits under one order number which I can use for administrative approval, however, all of these zones are producing in combinations such as Drinkard & Tubb, Grayburg & Drinkard, Wantz Abo & Tubb etc. in the Pool Limits.

It is respectfully requested that I be advised how to pursue approval of the quadruple.

Sincerely yours,

Paul Suhte Paul G. White

ce Mr. Ed Barnholt

Can 7906

906

August 20, 1963

POBON 1137 Mary

Mr. A. L. Porter, Jr.
Secretary-Director
New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Subject:

Application for permission to Quadruple complete the Western Oil Fields, Inc. Gulf Hill No.4 in the Gravburg Oil Fields Uil, Drinkard Oil & Wantz Abo Oil Pool, Lea

County, New Mexico

Constelly

Dear Sir:

In accordance with provisions of Statewide Rule 112, Western 0il Fields, Inc., respectfully requests that you schedule a hearing to consider its application for permission to dublimate complete (tubingless) the subject well as specified below.

As per attached plat, this well is located in Unit "S" of Section 4, T-21-S, R-37-E, Lea County, New Mexico.

The completion will be made by utilizing (4) strings of 2 7/8ths inch tubing. Cement will be used to effect the separation of the four zones in the well bore. The Western Oil Fields, Inc., Gulf Hill No.4 well is offset by Famariss Oil & Ref. Co., Shell Oil Co., Pan American Oil Co., and Continental Oil Co. Copies of this application are being furnished these operators.

Sincerely Yours,

Paul Butte

Paul G. White Div. Engr.

Western Dil Fields, Inc.

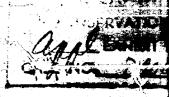
cc: Offset Operators
Mr. E. C. Barnholt

DOCKET MAILED

Det 9//3/63

EXHIBIT Part 1
FIT

PERTINENT PRODUCTION DATA ON
OIL-GAS WELLS NEAR GULF HILL #4
Sec. 4, T21S, R37E



		<u> </u>		· · · · · · · · · · · · · · · · · · ·	<u> </u>				And English
Company	-	Well	Accumulated 1- Dist. or Oil	L-1-63 Gas	Zone	Present Tests Oil or Dist.	Gas	COR	
Famariss	(s)	E. C. Hill lJ	30,986	1,091,831	Blinebry Gas Tubb Zone	Plugged	4100 MCFD		
Continental	(3)	E. C. Hill ik	51,187	csghd.	Terry Blinebry	16		6688	**
Continental	(D)	Hawk Fed A AU	<b>256</b>	ceghd.	Drinkard Blinebry	28 8		1221 1225	16 6
Continental	(s)	Hawk Fed B-4 1F	51,660	csghd.	Terry Blinebry	17		2882	17
Continental	<b>(</b> s)	Hawk Fed B-3 23A	42,950	csghd.	Terry Blinebry	6		5333	5
Pan American	(p)	Southland Royalty 3V	25,781 8,995	csghd.	-Drinkard -Tubb	45 18		2873 1389	45 18
Pan American	(T) (T) (T)	Southland Royalty 4X	94,720 24,465	csghd. 1,357,129	Drinkard Tubb Gas Blinebry Oil -	86 14 Made 76 BOPD on	390 MCF potential Ju	1060 27,400 July 10, 19	<b>71</b> .963 <b>(Has</b> 5)
Pan American	(Ď) (Ď)	Southland Royalty 5Q	59,594 & 83,000	csghd. 1.715,907	Drinkard Blinebry Gas	3 54	1060 MCF	40,200 21,200	3
Pan American " " " "	(T) (T) (T)	Southland Royalty 8W	No history	csghd. csghd. csghd.	Drinkard Blinebry Tubb	33 20 30		2515 1425 10,488	33 20 14
Shell "	(D)	Livingston 10P	28,784 19,680 14,547	csghd. csghd.	Wantz Abo Drinkard Blinebry	P&A (9-7-61) 33 14		1567 5514	33 14
Shell		Livingston 12I	9,908	csghd.	Blinebry Tubb Drinkard	18 Recovering Load Recovering Load		10,311	18
Shell .	(S)	Taylor Glenn 7H	68,280	csghd.	Terry Blinebry	14		12,314	14
Continental	(s)	L. G. Hill 1D	i nazi <del>Tirin a</del> al'angentimente na nationi alla kolony.		Grayburg - Made	e 139 BOPD on pot	tercial 10-5	• •	
Continental	(2)	Harry Fed B-3 1P	Made 53,753 har	rele oil be	efore recompletion				

EXHIBIT Part 1
II

PERTINENT PRODUCTION DATA ON
OIL-GAS WELLS NEAR GULF HILL #4
Sec. 4, T21S, R37E

1	Accumulated Dist. or Oil	1-1-63 Gas	Zone	Present Test Oil or Dist.	<u>s</u> Gas	GOR	Allowable_	
<b>1 H</b> 11 1J	30,986	1,091,831	Blinebry Gas Tubb Zone	Plugged	4100 MCFD		ALTOWABLE	<del>a languaguaguag ar dinan ang Propus</del>
inti ik	51,187	csghd.	Terry Blinebry	16		6688	1:6	
26d A 4U	256	csghd.	Drinkard Blinebry	28 8		1221 1225	16 6	g e e e e e e e e e e e e e e e e e e e
wir Fed B-4 1F	51,660	csghd.	Terry Blinebry	17		2882	17	
pris Fed B-3 23A	42,950	csghd.	Terry Blinebry	.6		5333	5	
national Royal by 3V	25,781 8,995	csghd.	-Drinkard -Tubb	45 18		2873 1389	42 18	
uthland Royalty 4X	94,720 24,465	csghd. 1,357,129	Drinkard Tubb Gas Blineb: Oil -	86 14 Made 76 BOPD o	390 MCF n potential	1060 27,400 July 10, 19	71 963 (Has 54 bbl	allowable)
u <b>tal</b> and Royalty 5Q	59,594 83,000	csghd. 1,725,907	Drinkard Blinebry Gas	3 54	1060 MCF	40,200 21,200	3	
uthland Royalty 8W " " "	No history	csghd. csghd. csghd.	Drinkard Blinebry Tubb	33 20 30		2515 1425 10,488	33 20 14	. The standard of the standard
vingston 10P "	28,784 19,680 14,547	csghd. csghd. csghd.	Wantz Abo Drinkard Blinebry	P&A (9-7-61) 33 14		1567 5514	33 14	
v <b>ing</b> ston 12I	9,908	csghd.	Blinebry Tubb Drinkard	18 Recovering Loa Recovering Loa		10,311	18	
wlor Glenn 7H	68,280	csghd.	Terry Blinebry	14		12,314	14	
G. Hill 1D	s en el el de la la la el defenda de la la la esta de la		Grayburg - Made	139 BOFD on po	otential 10-	5–35 , went	to 100% water	Den 12-8-55
wk Fed B-3 1P	Made 53,753 ba	rrels oil bof	ore recompletion			· ·		

# PERTINENT COMPLETION DATA ON WELLS NEW Sec. 4, 1218, R37E

		- 1 <sup>e</sup>	ÿ		1610, 10,12	Poter	ntial	i kang merendakan di	
		Pipe Depth	Cement &	Cement	Gross Perf.	Oil or		av.	Greate
Сошрану	Well	& Size	บธิธิมังจะ			insu.	<u> </u>		
Famariss	E. C. Hill lJ	13 <b>-</b> 3/8" @ 250 ' 8-5/8" @ 2850 ' 5-1/2" @ 6394 '	200 sks 200 sks 1000 sks	Circul ? ?	6195-6394 Tubb 5630-3870 Blinebry	96 BOPD 30 BDPD	4100 MCFD		46 <b>?</b>
Continental	E. C. Hill lK	13-3/8" @ 264' 9-5/8" @ 2946' 7" @ 6049'	300 sks 1420 sks 940 sks	Circul 950' 2850'	5869-5911 Blinebry	364 BOPD			39
Continentel	Hawk Fed A 4U	8-5/8" @ 1261' 5-1/2" @ 6839'	600 sks 700 sks	Circul 2350!	6590-6680 Drinkard 5828-6172 Blinebry	125 BOPD 27 BOPD		2240, 222	38.2 38.3
Continental	Hawk Fed B-4 1F	10-3/4" @ 251 ' 7-5/8" @ 3003 ' 5-1/2" @ 5998 '	250 sks 870 sks 436 sks	Circul ? ?	5734-5890 Blinebry	196 BOPD		<b>344</b>	40
Continental	Hawk Fed B-3 23A	10-3/4" @ 270 ' 7-5/8" @ 3149 ' 5-1/2" @ 5950 '	250 sks 1150 sks 400 sks	Circul 1425! 3100!	5758-5902 Blinebry	58 BOPD		2379	41
Pan American	Southland Royalty 3V	16" @ 212' 10-3/4" @ 1384' 5-1/2" @ 6725'	300 sks 300 sks 900 sks	Circul ? 3390'	6664-6688 Drinkard 6338-6380 Tubb	308 BOPD 74 BOPD		.832	38 40
Pan American	Southland Royalty 4X	13-3/8" @ 305 ' 8-5/8" @ 2890 ' 5-1/2" @ 6748 '	300 sks 4 <b>75 sks</b> 1 <b>80</b> sks	Circul 1750' ?	6610- ? Drinkard 6176-6392 Tubb 5777-5948 Blinebry	508 BOPD 99 BDPD 76 BOPD	647 MCFPD	682 31,960 492	39 52
Pan American	Southland Royalty 5Q	13-3/8" @ 312 ' 8-5/8" @ 2882 ' 5-1/2" @ 6755 '	300 sks 300 sks 360 sks	Circul 1365' 5425'	6640-6652 Drinkard 5702-5970 Blinebry	249 BOPD 10 BDPD	2170 MCFPD		38 54
Pan American	Southland Royalty 8W	9-5/8" @ 1347' 7" @ 6702'	580 sks 600 sks	Circul ?	6617-6649 Drinkard 6229-6327 Tubb 5837-5984 Blinebry	42 BOPD 114 BOPD 24 BOPD			38 37 42
Shell.	Livingston 10P	13-3/8" @ 283 ' 8-5/8" @ 3139 ' 5-1/2" @ 7425 '	250 sks 2300 sks 550 sks	Circul Circul 4255!	7024-7388 Wantz Abo 6572-6654 Drinkard 5772-5890 Blinebry	77 BOPD 131 BOPD 160 BOPD		255 6924 2110	33 39 40
Shell	Livingston 12I	9-5/8" @ 308	635 sks	Circul 2200   2200	6543-6603 Drinkard 6163-6326 Tubb 5763-5772 Blinebry				

#### EXHIBIT II Part 2

#### PERTINENT COMPLETION DATA ON WELLS NEAR GULF HILL #4 Sec. 4, T21S, R37E

25 95 4	21 - 1 A & A & La La La	en a grand de la company	San San Fr		Poter	tial			
	Pipe Depth	Cement	Cement	Gross Perf.	Oil or	Adelia ga de a come			
	& Size	lleed		& Zone	Dist		COR	Grav.	Kemarks
IJ	13-3/8" @ 2501	200 sks	Circul	6195-6394 Tubb	96 BOPD	***		16	DEA 0/20/51
	8-5/8" @ 2850 1	200 sks		5630-3870 Blinebry	30 BDFD	4100 MCFD	1	46	P&A 9/29/54
	5-1/2" @ 6394'	1000 sks	?	JOJO-JOJO DITHEDLY	עונעם טכ	ATOU MOLD	· .	2	
	)-1/2: 8 0)94°	1000 SKS					<u> </u>		<del> </del>
lk	13-3/8" @ 2641	300 sks	Circul	5869-5911 Blinebry	364 BOPD		7	39	
and the second second	9-5/811.@ 2946.1	1420 sks	9501	Jooy-Jyii Billiebiy	JOH DOLD			77	
	7" @ 60491	940 sks	28501						
	7 6 0047	740 ONO	2000		<del></del>	<del></del>	<del></del>	<del></del> -	
113	8-5/8" @ 1261'	600 sks	Circul	6590-6680 Drinkard	125 BOPD		2240	38.2	
	5-1/2" @ 68391	700 sks	23501	5828-6172 Blinebry	27 BOPD		222	38.3	Pump
						<del> </del>			
- <b>4</b> 1F	10-3/4" @ 251 '	250 sks	Circul	5734-5890 Blinebry	196 BOPD	4	344	40	
	7-5/8" @ 30031	870 sks	?	),j,, , , , , , , , , , , , , , , , , ,			7-7-7	1	
	5-1/2" @ 59981	436 sks	?	The second second				1	
-3 23A	10-3/4" @ 270 '	250 sks	Circul	5758-5902 Blinebry	58 BOPD		2379	41	
<b>3</b>	7-5/8" @ 31491	11.50 sks	1425!						
<u> </u>	5-1/2" @ 5950	400 sks	3100 t		·	and a summer of the same of th	<u> </u>		<u> </u>
					- 12			1	
Royalty 3V	16" @ 212!	300 sks	Circul	6664-6688 Drinkard	308 BOPD			38	
	10-3/4" @ 13841		3	6338-6380 Tubb	74 BOPD	,	832	40	
	5-1/2" @ 67251	900 sks	33901			···	<u></u>		
	en personal en		4						
Royalty 4X	13-3/8" @ 305 '	300 sks	Circul	6610- ? Drinkard	508 BOPD		682	39	
	8-5/8" @ 2890 !	475 sks	1750'	6176-6392 Tubb	99 EDPD	647 MCFPD	31,960	52	
	5-1/2" @ 67481	180 sks	?	5777-5948 Blinebry	76 BOPD		492		
n 14 FO	20 0 /04 6 0201	200 -1	G43	((10 (752 Dad -1	OLO DOED			38	
Royalty 5Q	13-3/8" @ 312' 8-5/8" @ 2882'	300 sks 300 sks	Circul 1365 '	6640-6652 Drinkard 5702-5970 Blinebry	249 BOPD 10 BDPD	2170 MCFPD		54	
	5-1/2" @ 67551	360 sks	54251	7/02-59/0 Billiebry	תאמם סד	STIO MOLLD		24	
<del></del>	7-1/2 & 01))·	JOU SKS		<del></del>		<del></del>		5 1 2 2	
Royalty 8W	9-5/8" @ 13471	580 sks	Circul	6617-6649 Drinkard	42 BOPD			38	
coyaroy on	7" @ 6702 !	600 sks	?	6229-6327 Tubb	114 BOPD		- -	37	
	1 9 0102	000 5110	• 14	5837-5984 Blinebry	24 BOPD			42	Pump
	<del></del>		<del></del>	Joj Joan Billioni,		<del></del>			
10P	13-3/8" @ 283 '	250 sks	Circul	7024-7388 Wantz Abo	77 BOPD		255	33	Pump P&A 9/7/61
<del>,                                    </del>	8-5/8" @ 31391	2300 sks	Circul	6572-6654 Drinkard	131 BOPD		6924	39	- with 1 art // [/ OI
	5-1/2" @ 74251	550 sks	42551	5772-5890 Blinebry	_160 BOPD		2110	40	
						····	~	<del>~~</del>	
<u> </u>									الراجية المحافظة الم المحافظة المحافظة ا
12I	9-5/8" @ 3081	250 sks	Circul	6543-6603 Drinkard	. The second of	The second secon		-	
. — - <b>—</b>	2-7/8" @ 67451	635 sks	22001	6163-6326 Tubb					
	2-7/8" @ 67451	635 sks	2200	5763-5772 Blinebry				1	
	-2-7/810-9-67451								

## 5-1-61

#### HEW MEX \_\_\_OTE CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

## APPLICATION FOR MULTIPLE COMPLETION

Western Oilfields, Inc	•	County	ek (C./UD) h	Date 1 August 20, 1963
P. O. Box 1137, Hobbs	(a) (a) (a) (a) (b) (a)	Lease	of Hill	Well No.
	ection	Township		Range
Well S S				37-8-
same zones within one mile of the su If answer is yes, identify one such in	bject well? YES_	NO_X_	Operator, Lease, an	of a well in these same pools or in the
The following facts are submitted:	(1) Uppe Zone	(2)	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Grayburg	Tubb	Drinkard	Warrtz-Abo
b. Top and Bottom of				
Psy Section	2000 4300	cauc cada	ceer care	7000 7000
(Perforations)	3900-4300	6340-6360	6665-6750	7000-7060
c. Type of production (Oil or Gas)	Oil	011	011	011
d. Method of Production		777	TTT	<b>TOT</b>
(Flowing or Artificial Lift) The following are attached. (Please	Flow	Flow	Flow	Flow
List all offset operators to the lease of Famariss UII & Refinin				
Shell Oil Co., Attn:		<del></del>		
Pan American Petroleum				<u> </u>
Continental Oil Co., A	ttn: Mr. W.	A. Mead, 825	Petroleum BL	dg. Roswell, New Mexico
Were all operators listed in Item 5 also	ve actified and furni	shed a copy of this	application? YES_	X NO If answer is yes, give
· Allmigt /II	, 1963		••	
or such normeation		= = -		
CERTIFICATE: I, the undersigned, s				
CERTIFICATE: I, the undersigned, s	my), and that I am a	uthorized by said con herein are true, con	empany to make this sect and complete to s	report; and that this report was prepar the best of my knowledge.
CERTIFICATE: I, the undersigned, s Inc. (compa er my supervision and direction and th	any), and that I am a at the facts stated t	uthorized by said con herein are true, con	empany to make this sect and complete to t	report; and that this report was prepar the best of my knowledge.
CERTIFICATE: I, the undersigned, s Inc. (compa ler my supervision and direction and th  Should waivers from all offset ope Commission will hold the applica	any) and that I am a at the facts stated to erators not accompan- tion for a period of t	uthorized by said contended in are true, contended in are true, contended in a second in a	ect and complete to the complete the compl	report; and that this report was prepar the best of my knowledge.

#### OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

Date 9/25/63

CASE 2906

Hearing Date 9/25/63

My recommendations for an order in the above numbered cases are as follows:

Even an arder approving the quadruple fample for (tubing less)

& western Oil Fields, Inc.

Bulf the wree #4 located 1980' FSC.

\$ 1980 'FWT of Sec 4, T 213, R 37 E

To produce all from the PenroreStelly, Turaa, Drinkard, & wants Abo

Pools through parallel strings & 28

inch saving somewhol in a common well bore.

Also provide that applicant may obtain administrative approval to sucetible the glarita formation for the Few San Andres ( Penrose-Skelly) in the love the lateer does not prove prove prove prove the lateer does not prove to prove the segregation Summer to the segregation Summer to the segregation Summer to the segregation of the wants to GOR to annually there after leving the wants to GOR to annually there after leving the wants to GOR

#### DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 25, 1963

#### 9:00 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, or Elvis A. Utz, as alternate examiner:

- CASE 2883: (Continued from the August 21st examiner hearing)
  Application of Pan American Petroleum Corporation for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a Tubb gas, Blinebry oil and Paddock gas triple completion, Fowler Field, at an unorthodox location for the Fowler Blinebry Oil Pool 990 feet from the South line and 1650 feet from the East line of Section 15, Township 24 South, Range 37 East, Lea County, New Mexico.
- CASE 2901: Application of Pan American Petroleum Corporation for an unorthodox location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to drill its SMU Well No. 17 at an unorthodox location 1980 feet from the North line and 1980 feet from the East line of Section 15, Township 24 South, Range 37 East, Fowler Ellenburger Pool, Lea County, New Mexico.
- CASE 2902: Application of Pioneer Production Corporation for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests in the Blanco Mesaverde and Basin-Dakota Gas Pools underlying the S/2 of Section 28, Township 30 North, Range 12 West, San Juan County, New Mexico.
- CASE 2903: Application of Coastal States Gas Producing Company for a dual completion,
  Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval
  of the dual completion (conventional) of its Gulf State Well No. 1, located
  in Unit F of Section 20, Township 17 South, Range 36 East, Lea County, New
  Mexico, to produce oil from the Double-A Abo Pool and an undesignated Lower
  Leonard pool through parallel strings of tubing.
- CASE 2904: Application of Coastal States Gas Producing Company for the creation of a new Abo Pool and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new oil pool for Abo production in Sections 15 and 16, Township 9 South, Range 33 East, Lea County, New Mexico, and for the establishment of temporary rules therefor, including provisions for 80-acre spacing and fixed well locations.
- CASE 2905: Application of Robert N. Enfield for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the West Indian Basin Unit Area comprising 4,278.29 acres of Federal, State and fee lands in Township 21 South, Range 23 East, Eddy County, New Mexico.
- CASE 2906: Application of Western Oil Fields, Inc. for a quadruple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the quadruple completion (tubingless) of its Gulf Hill No. 4 located in Unit S of Section 4, Township 21 South, Range 37 East, Lea County, New Mexico, to produce oil from the Penrose-Skeily, Tubb, Drinkerd and Wantz Abo

No. 27-63

Pools, through parallel strings of 2 7/8 inch casing cemented in a common well bore.

CASE 2907: Application of Penroc Oil Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests in the Indian Hills Upper Pennsylvanian Gas. Pool underlying Section 19, Township 21 South, Range 24 East, Eddy County, New Mexico.

CASE 2908: Application of Penroc Oil Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order force-pooling all mineral interests in the Morrow section of the Pennsylvanian formation underlying Section 19, Township 21 South, Range 24 East, Indian Hills Field, Eddy County, New Mexico.

CASE 2909: Application of Sinclair Oil & Gas Company for the extension of a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its Grayburg-Jackson Waterflood Project, Grayburg Jackson Pool, Eddy County, New Mexico, by the injection of water into 7 additional wells located in Sections 3, 4, 5, 8, 9, and 10, Township 17 South, Range 31 East. Applicant further seeks an administrative procedure for further expansion of the project by the conversion to water injection of 30 additional wells in three 6-month stages commencing in early 1964, said wells to be located in Sections 3, 5, 6, 7, 8, 9 and 10 of said township.

Application of Big (6) Drilling Company for extension of an existing oil pool and special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the extension of the Scharb Bone Spring Oil Pool to comprise the W/2 of Section 5, all of Section 6, and the N/2 of Section 7, Township 19 South, Range 35 East, Lea County, New Mexico, and for special rules therefor, including 80-acre spacing and proration units to comprise any two contiguous 40-acre tracts, and for fixed well locations.

Short of a Committee South of Surface of the Service of the surface of the surfac

JMD/esr

45

## BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:



CASE No. 2906

Order 10 R- 2577

APPLICATION OF WESTERN OIL FIELDS, INC., FOR A QUALRUPLE COMPLETION, LEA COUNTY,

ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on September 25, 1963, at Santa Fe, New Mexico, before Daniel S. Nutter Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this day of <u>September</u>, 1963, the Commission, a quorum being present, having considered the application, the evidence siduced, and the recommendations of the Examiner, Daniel S. Nutter , and being fully advised in the premises,

#### FINDS:

- (1) That due public notice having been given as required by matter thereof.
- (2) That the applicant, Western Oil Fields, Inc , seeks authority to complete its Gulf Hill Well No. 4, located in Unit S of Section 4, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, as a quadruple completion (tubingless) to produce oil from the Penrose-Skelly, Tubb, Drinkard, and Wantz-Abo Pools through parallel strings of 2 7/8-inch casing cemented in a common well bore.
- (3) That the mechanics of the proposed quadruple completion are feasible and in accord with good conservation practices.
- (4) That approval of the subject application will prevent waste and protect correlative rights.

(2) Shat if the Pennson - Bleely pool is mongeoductive, the Decretary - Shructor of the
Cammonia is hereby authorized to present
requirements of Rule 1/2-A of the general
Rhlue and Regulations to permit sombethetic

The Glorida format

The applicant to complete him the formato

The applicant to complete him the formato

Short formation to pull in the
Storieta formation to plain of the Pennson
Shelly Pool theppication for sixth mystigate lamptin

Luce at field in accordance with Rule 1/2-A.

## IT IS THEREFORE ORDERED:

(1) That the applicant, Western Oil Fields, Inc., is hereby authorized to complete its Gulf Hill Well No. 4, located in Unit S of Section 4, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, as a quadruple completion (tubingless) to produce oil from the Penrose-Skelly, Tubb, Drinkard, and Wantz-Abo Pools through parallel strings of 2 7/8-inch casing cemented in a common well bore.

PROVIDED HOW EVER, That the applicant shall complete, operate and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order.

gation tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the

(3)(7) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

#### BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CAULED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE No. 2 906 Order No. R-2577

APPLICATION OF WESTERN OIL PIELDS, INC., FOR A QUADRUPLE COMPLETION, LEA COUNTY, NEW MEXICO.

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on September 25, 1963, at Santa Fe, New Mexico, before Datiel S. Rutter, Examiner duly appointed by the Oil Commercation Commission of New Mexico, hersinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

MOW, on this 3rd day of October, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Example, Daniel S. Mutter, and being fully advised in the premises,

#### FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Western Oil Fields, Inc., seeks authority to complete its Gulf Hill Well No. 4, located in Unit 8 of Section 4, Township 21 South, Range 37 Hast, MMPM, Lea County, New Maxico, as a quadruple completion (tubingless) to produce oil from the Penrose-Skelly, Tubb, Drinkard, and Wentz-Abo Pools through parallel strings of 2 7/8-inch casing cemented in a common well bore.
- (3) That the mechanics of the proposed quadruple completion are feasible and in accord with good conservation practices.
- (4) That approval of the subject application will prevent waste and protect correlative rights.
- (5) That the Secretary-Director of the Commission should be authorized to permit the applicant to complete the subject well in the Glorieta formation in lieu of the Penrose-Skelly Pool if the Penrose-Skelly Pool is non-productive.

CASE No. 2906 Order No. R-2577

## IT IS THEREFORE ORDERED:

(1) That the applicant, Western Oil Fields, Inc., is horeby authorized to complete its Gulf Hill Well No. 4, located in Unit S of Section 4, Township 21 South, Range 37 East, MCPM, Lea County, New Mexico, as a quadruple completion (tubingless) to produce oil from the Penrose-Skelly, Tubb, Drinkard, and Wants-Abo Pools through parallel strings of 2 7/8-inch casing cemented in a common well bore.

PRO-IDED HOWEVER, That the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order.

PROVIDED FURTHER, That the applicant shall take some segregation tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Wasts-Abo Pool.

- (2) That if the Penrose-Skelly Pool is non-productive, the Secretary-Director of the Commission is horeby authorized to grant an exception to the requirements of Rule 112-A of the Rules and Regulations to permit the applicant to complete the subject well in the Glorieta formation in lieu of the Penrose-Skelly Pool; that application for such multiple completion shall be filed in accordance with Section IV, Rule 112-A.
- (3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DOME at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF MEW MEXICO COLL COMBERVATION COMMISSION

walker

WALKER, Member

JACK M. CAMPBELL DIMINION

## State of Nate Alestes

## Wil Conserbation Commission

LAND COMMISSIONER

E. B. JOHNNY WALKER



A L. FORTER, M.

A & MI OT! BANTA FE October 3, 1963

Mr. Thomas McRenna Attorney at Law 302 E. Palace Avenue Eanta Fe, New Mexico

Order No. 2906
Order No. R-2577
Applicant:
Western Oil Fields, Inc.

Dear #4::

Emclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

At Porter le

A. L. PORTER, Jr. Secretary-Director

Carbon copy of order also sent to:

Bobbs OCC \_\_\_\_X

Artesia OCC\_\_\_\_
Astec OCC\_\_\_\_
OTHER

## DEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico SEPTEMBER 25, 1963

EXAMINER HEARING

IN THE MATTER OF:

DEARNLEY-MEIER REPORTING SERVICE,

Application of Western Oil Fields, Inc. for a quadruple completion, Lea County, New Mexico, seeking approval of the quadruple completion of its Gulf Hill No. 4, located in Unit S of Sec. 4, TS 21 South, Range 37 East, Lea County, New Mexico, to produce oil from the Penrose-Skelly, Tubb, Drinkard and Wantz Abo

Case No. 2906

DEPOPE: DANTRI C MINNED EXAMINED

TRANSCRIPT OF HEARING



BEFORE THE OIL CONSERVATION COMMISSION santa Fe, New Mexico september 25, 1963

## EXAMINER HEARING

IN THE MATTER OF:

Application of Western Oil Fields, Inc., for a quadruple completion, Lea County, New Mexico, seeking approval of the quadruple completion of its Gulf Hill No. 4 located in Unit's of Section 4, Township 21 South, Range 37 East, to produce oil from the Penrose-Skelly, Tubb, Drinkard and Wantz Abo.

CASE NO.

2906

BEFORE:

DANLEL C. MITTER, EXAMINER

## TRANSCRIPT OF HEARING

MR. NUTTER: Case 2906.

MR. DURRETT: Application of Western Oil Fields, Inc.,

for a quadruple completion, Lea County, New Mexico.

MR. McKENNA: Tom McKenna of Santa Fe representing Western

Oil Fields. We have one witness.

(Witness sworn)

PAUL G. WHITE,

called as a witness herein, having been first duly sworn on oath, was examined and testified as follows:



WITKINS and CROWNOVER General Court Reporting Service DEARNLEY, MEIER,

Simms

			1:		DIREC	r examina	Tron	- · · · · · · · · · · · · · · · · · · ·	AGE 3
			BY MR.	MCKENNA:	wax ,	177457	TION		
<b>-</b> ,						*			
				Would you	state your	full non	e de la companya de		
1	-	z	Ä	Paul G. W	hite.	- Han	e, blease.		· · · · · · · · · · · · · · · · · · ·
	8	243.6691	Q		is your addr				<u>.</u>
	CROWNOVER	240	A	1916 Gila	Drive m	ess?			
	NO	Phone	Q	Your age	Drive, Hobb	s, New Me	xico.		1
	710	a]	<b>A</b>	I am ac	and for whom	n you wor	k?		-
	.KC	oloi	. Field	- T	irs. I am e	mployed r	k? Now for }		1.
	<b>.</b>	Mexico	0						n
,	Poorting Service	Now A	* * * * * * * * * * * * * * * * * * *	Have you eve	er testified	before	this Commissio		
	ting ting				1106				
		rque,	Q ţ	Vill you tel	1 the commi		ething about	The control	
17.71		and	backgro	und, starti	na se en	STON SOM	ething about	your educ	7a+ 105
	ે દે	plea	ise?		.a ar rue co	llege le	ething about Wel and therea	afton	on
H	General	]			· · · · · · · · · · · · · · · · · · ·				·   -
MEIER	8	Rach	. 1	s, sir. I	graduated f	rom the m	ndermanne		
1, 1	Buildin	34.011	eror of	Science deg	cee, 1950.	Mv. O.	niversity of	New Mexic	0
IJ	B	13 ye	ars in	the oil busi	Dog-	-vy exper	lence has beer	the las	+
TANT	Simm	Distr	ict Engi	neer for Az	taanotaani	The utue	I have serve	d as	·
	00	for J	. D. Rat	her, Jr	occ OII and	Gas Comp	any, Division	Enginos	
	Suite 1120	Fields	Inc.	And	ind now Divi	sion Engi	any, Division neer for West	ena o :-	
	Suit	the co.	mpletion	ind in tha	t nine year	s, I have	neer for West	rein Oil	
	1	and the	2 du 2 7	or probabl	$y$ 40 or 50 $_{ m V}$	ells, bo	supervised d	rectly	
	t	he uch	r . - And T C	ompletions.	My experie	nce has r	th single comp peen almost wh	pletion	
	-   m	II(ID	ws area	in the Per	mian Basin .	area a	oeen almost wrort time in n	olly in	
			nd Oklah	oma.		-cu. Sh	ort time in n	orth	
	<u> </u>	Ω	271					1	

All right.

DIRECT EXAMINATION



MR. McKENNA: Mr. Examiner, I ask that the qualifications be accepted.

MR. NUTTER: Mr. White is qualified.

(By Mr. McKenna) All right. Are you going to be in charge of the proposed multiple completion?

A Yes, sir, I am.

Q All right. Can you tell the Commission what the present status of the Gulf Hill Number 4 is?

A Sir, we contemplated a spudding date in July. We had some delay there and we are now in the process of drilling a 20 inch hole in order to set 16 inch surface pipe on the well.

Now, I hand you what has been marked as Applicant's Exhibit Number One. Can you tell the Commission what that is?

A Yes. This is a condensed plat marked in red as the well location. It is 1980 from the south line, and 1980 from the west line of Section Four, Township 21 South, Range 37 East.

Q Mr. White, what is your general proposal; why are you here this morning; what do you want to accomplish?

A Sir, we want to, with the Commission's approval, attempt to quadruple complete - quadruple completion on this well.

Q All right. Now, have you gathered together any pertinent data on nearby wells, that have produced from the formations that you are interested in, in this proposed multiple?

A Yes, sir. I have prepared Exhibit Two for it. And this preparation was made in order to point out the fact that the four

DEARNLEY, MEIER,

zones in which we contemplate completion have already produced in Section Four. They have been geologically identified as separate producing oil and gas zones. I would like to on Exhibit Two to point out briefly for instance, down on the list, Pan American, Southland Royalty, B & W, there is no accumulative history as yet, but the well is now from the Drinkard Oil, Blinbery Oil and Tubb pil. I have put down present tests on the well, and allowables. Another example would be the Southland Royalty 3-V, up the list, producing from the Drinkard and Tubb. The Wantz Abo, which is also contemplated, has a producing section in this wellproducing section in this well, as shown by Livington T & P, which Shell produced in excess of 28,000 barrels, but now, P. & A., Grayburg was completed and the Continental L. G. Hill 1-D, which is not shown on the plat, it is north of the extent of the plat, and it made 139 barrels of oil on potential, and then, to 100 percent water. I have with me a log analysis, a geochemical engineering analysis for the Glorieta and Grayburg Sections in this area, and they have -they give the well every possibility of being successful in the Grayburg, and/or Glorieta. This Exhibit Two was just prepared to give- -It consists of two parts. The first part being pertinent production data. The second part, the pertinent completion data. I included that merely for the Examiner's benefit of seeing where the pipe has been set and cement used, and potential, and so on.



Veneral Court Reporting Service
ing Aliuquerque, New Mexico Phone 24

Br

A Yes, sir. I did prepare it. Information came from the Oil Conservation Commission District Office in Hobbs, New Mexico.

Q Mr. White, I now give you what has been marked as Exhibit Number Three, which is the diagrammatic sketch for the multiple completion. I make reference to this sketch. Will you explain to the Commission how you plan to make this multiple quadruple completion if your application is granted, particularly as to your cementing program?

Yes, sir, I will. We propose to drill this 20 inch hole, which is being drilled now, to a depth of approximately 280 feet and set 16 inch Armco casing and circulate cement. We then propose, after testing casing, to drill a 12 and a quarter inch hole to approximately the depth of 3,000 feet, and run 103/4 inch intermediate casing We will bring the top of cement on this string. after running a microcaliper survey, calculate the actual cement volume, to at least 1100 feet from surface. This, we feel, would adequately cover the salt dome in the section. The salt dome approximating 1300 feet down to 2800 feet. We then contemplate --I might add that on top of the 103/4 inch, we plan to run two joints of 133/8 inch casing to better adapt to the quadruple tubing head. We then contemplate drilling a 97/8 inch hole to the depth of, I have the plat marked 7400, but I believe that personally 7300 will he adequate. And we then will run 4 strings of 2 7/8 inch regular API tubing. All strings being run to total depth, concurrently, simultaneously. The two inner strings will be equipped as cement-



Bui

Simms

Suite

ing strings with latch type equipment. The two outer strings will be bull plugged. The strings will be equipped with centralizers and tubalizers throughout, each section, in which we contemplate production, and at least a minimum of 100 feet above each section. We, on the string marked Glorieta, have included the sliding sleeve type equipment. This has been written up adequately in Oil Journal by engineers as a protection against an inadequate primary cement job. We felt that this was very important in that this seems to be one of the difficulties encountered in multiple completions, tubingless completions. We propose, also, to run radio active rings so we can perforate by orientation method on the density perforate by orientation on the density method with polar charts. Then, we will equip this well with a 13 3/8 graduating tubing head so that proper segregation tests can be run, temperature, surface gas-oil ratio. We intend to also set separate metaring vessels for each of the four zones producing.

- Q Mr. White, did you prepare this sketch?
- A Yes, sir, I did.
- Q Is it your testimony won will be sitting on this well; is that correct?
  - A es, sir.
- Q Now, will you plan or will you check the cement job before you engage in any perforation?
- A ves, sir. We intend to run a caliper survey and bring the top of cement on the four tubing strings into the 10 3/4 inch



intermediate string. Then, with a pressure test, of course, at least 2,000 pounds, we intend to push the pressure up on each string, then with a locator run on small tubing, we intend to open the bottom sliding sleeve and attempt a pump in, if a pump rate with water is attained, we will squeeze at that point. The reason again for the sliding sleeve couplings, we are trying to stay away from drill out in this small tubing, and by having the Glorieta string on the outside there, we feel that we can put the block squeeze job in without drill out and come up and complete in our Glorieta or Grayburg.

- Can you artificially lift a pump if necessary?
- and Tubb gas, or oil zone, flowing to an economic limit on the well rne wants Abo and Clorists, there is a possibility they will have to be lited, with this two and 7/8 inch tubing, with ID of 2.4, we can pump continually with consequential sucker rod method.

Yes, sir. We anticipate, of course, the Drinkard oil

- Each of the proposed zones that you are interested in, is it your testimony that in your opinion they are separately-separate sources of supply?
  - Yes, sir. Yes, sir.
- Now, is it your opinion that production from each zone can be kept separate?
  - Yes, sir. Ā
  - Measured separately?



Q If you have not mentioned previously, how do you plan to do that?

A Wall, sin, with cement, or course, and block squeeze job we intend to then, upon completion, run segregation tests and eliminate any type of communication we may have incurred and then, by the setting of separate metering vessels we intend to keep the production separate. I won't say the gas-oil ratio will be definitive of segregation. I will say that the gravity of the oil in certain instances will be. In the event of a Tubb gas, the oil gravity runs 50 plus API degrees. The Drinkard gravity should run in the neighborhood of 38 degrees and Wantz Abo 33. I don't know, sir, about the Glorieta gravity.

- A No, sir. Not any particular problems in the area.

  However, we anticipate this proposal, that we will run a corosion inhibiting compound on the upper, plastic coating type, on the upper 1200 feet of our tubing string.
- Q Mr. White, if your application is granted, is your plan to submit a sketch of the actual completion within a period of time after completion?
  - A Yes, sir.
  - Q What period of time?
- A Within at least 15 days, I believe, according to Rule 112, we will submit a diagrammatic showing the mechanics and cementing



uilding Albuquerque, New Mexico

of the well. Within seven days, after completion we plan to submit the necessary segregation tests, bottom hole pressures and temperature surveys to the Commission.

O Do you plan any particular mechanical problems that you may not have covered in the testimony?

A No, sir. Of course, difficulty has arisen in this type of completion. I have made a complete research on other companies' experiences. I am going to attempt to benefit from their problems and mistakes. I have researched the records at the Commission and talked to Amarada and Texico and Pan American, about some of their problems, and I naturally don't anticipate any real difficulty in the completion of the well.

keeping with the principals of conservation and prevention of waste?

A Yes, sir. Yes, sir.

Q All right.

MR. McKenna: I believe, Mr. Examiner, that is all.

MR. NUTTER: Are there any questions of Mr. White?

#### EXAMINATION

#### BY MR. DURRETT:

Q Yes, sir. I have a question or two. Mr. White, I am a little confused. Apparently, there is some discreprancy here. We advertised this case as multiple quadruple completion to produce from the Penrose-Skelly, Tubb, Drinkard and Wantz Abo Pool. Now,



A Yes, sir, or Grayburg, if the Glorieta does not produce. Sir, on the letter I sent in, in my application, it is corrected. The letter to the Commission where I made application for hearing is correct. I notice the case was written up in Penrose-Skelly.

- Q But, you would like the record to show Glorieta and/or Grayburg for the 4th zone?
  - A Yes, sir.
  - Q Glorieta- -
  - A Or Grayburg.
  - Q - or Grayburg?
  - A Yes, sir.
- Q Did you want to amend your application, Mr. McKenna?

  MR. McKENNA: We certainly very definitely want to make
  that amendment. We very very definitely want to make the amendment
  to include the Grayburg or Glorieta.

MR. NUTTER: The application, Mr. White, even the letter here of August 20th requested the Grayburg, didn't say anything about the Glorieta.

A No, sir, did not. I made application simply to specify that it would be at least a four zone attempt. Now, the well is contingent on a Glorieta or a Grayburg possibility and we will core and test these zones in the process of drilling, and in the event that we have what we feel an economic production, we will



General Cour Reporting Service

O Simma Building Albustication Non Mexico

ton.

-	Comp.1.	PAGE 12
	complete in one of the two zones, sir. The completion	
	1	the
1	application should have read Grayburg or Glorieta.	
1	read Grayburg or Glorieta.	in in Lard

- (By Mr. Durrett) One other thing, should have read Glorieta Oil or Gas?
  - oil.
  - Q 011?
  - Yes, sir.
  - Specifically.

MR. DURRETT: I probably ought to direct this to Mr. McKenna, if the Commission felt that it shouldn't amend the application, due to the possible defect in the add, you wouldn't have any objection, would you, with the understanding that if you did get a completion in the Glorieta, probably could be approved by administrative approval?

> MR. McKENNA: No, we have no objection to that at all. MR. NUTTER: This hearing is probably limited to Penrose-

Skelly.

.IR. McKENNA: Can the Penrose-Skelly be in any way correlated to the Grayburg-Glorieta?

- A Yes, sir.
- Can you explain how this is so? Ç
- Well, sir, we feel this way about that: That in the horizon from 5200 feet, in that area, to surface, we have the possibility of completing in the Grayburg or Glorieta. Now, this Penrose-Skelly affair got out due to my research of - in the Hobbs



_				
		Ť	Ş	
		1	4	
	٠,		<b>~</b>	
	4,5	(	<b>S</b>	
			>	
			7	
			2	
		C	) [	
		Õ		
		(	3	
÷	•	7	}	
		2		
		٧	3	
i	(	Ŋ	-	
	į	2		
	ŀ	WILKINS and C	_}	
	3	4		
	ŀ	1	S. F.	
į	5	۲	1	
1	2	\$	_ 3	
	_			
	_			
1	D	,	a/C	
22	ממ	,		
	IND	(\T\T\T		
	LILID	(\T\T\T		
	METED	(\T\T\T		
	METED	(\T\T\T		
	Y METED	(\T\T\T		
TAY VAL	HY METED	(NITT - / - / - / - / - / - / - / - / - / -		
	LEY MHIED	(NITT - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
	Z Z	(NITT - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
	KINLEY. MFIED	(NITT - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
一 コンドー アイアー・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	TRIVLEY, METED	(NITT - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
アイログレープで	ALKINEEY. MEIED	(NITT - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
一	ATAINTEY. METED	(NITT - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
一 エーロント エイン・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	DIGINALEY. METED	(NITT - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
一	JACKINGEY. METED	(NITT - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
した アンドア・・・・	JAMENIA METED	(NITT - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
これる。ログドードはアーバルリー	DIGITALEY. MAIRD	(NITT - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
していていていていていていていていていていていていていていていていていていてい	DIGINITAL METED	(NITT - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
これていたというと	JUSTINGEY, METED	(NITT - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		

Commission office in attempting to find a way of obtaining administrat ive approval. That is the only reason that that came about.

I believe it has been suggested the way to proceed in the case. We will so proceed, Mr. Examiner.

MR. NUTTER: Fine. Are there any other questions of the witness. Mr. Frank Irby, State Engineer's office.

MR. IRBY: Mr. White, I want to ask you about this surface casing. I believe you said this would be Armco casing?

- Yes, sir.
- Q What quality is that?

Sir, that is a quarter inch wall thickness casing. Its weight is approximately 42 pounds per foot. The setting depth on the casing recommended down to 1100 feet by the company. The bursting pressure, I do not have, sir, of the casing.

- Pardon me. I think you misunderstood me. I am talking about 16 inch casing. I understood you said it was set at 280 instead of 1100 feet.
  - 280 feet, yes, sir.
  - It is quarter inch wall, 40 pound casing?
  - Yes, sir.
  - And where will that be landed?
  - It will be landed at 280 feet, sir.
  - What formation?
- Well, sir, it would be just below the Red Red area. wouldn't know the formation at all, sir.



7		0
DEARINGE, MEIER, WILNING and CROWING		Allerent New Distriction of the Control of the Cont
<u> </u>		A S
¥		
7	9	, in the
a	Sarvi	, .
2	Euit	2
Ę	General Court Reporting Service	
7	urt K	
>: >	۔ة_ ك	41
	nera	
	Ö	
7 / 7		Hin
ij		H B
		ite 1120 Simme Building
77	i i	20.5
17		11
		ito

oltow	Tire	n.eq.	beds?

- Yes, sir.
- The 280 is?

Yes, sir. Then, it would protect any of the fresh water zones in that area, I believe, down to that depth, sir. Reason that was projected is because of other operators' policy in the area, in Section 40 there, surface casing. Other operators set the same type thing. Here is 13 3/3 at 264. On down here, 9 5/8 In other words, the surface program seems to be down that 300 foot level.

- My problem is I didn't think that 280 feet would get you through the red beds?
- Well, sir, if it will not, we will go through the red hods.
- I am not especially interested in the red beds as long as I have assurance that this will be set into and through the red beds.
  - It will be, sir.
- And the cement will be circulated as indicated on the diagram?
- Yes, sir. That is right. Well, upon the running of surface casing, we will notify the Commission in Hobbs so if they prefer, they can have a witness on the job.

MR. IRBY: That is all I have. Thank you.

MR. NUTTER: Any other questions of Mr. White?



MR. DURRETT: I have just one additional question. Mr. White, just as a matter of interest to me, can you tell me in lay language as much as possible what the sliding sleeves do?

A sir, they are run inside the 2 7/8 inch, call it casing in this case, and they will provide us with an opening to squeeze cement through. I was trying to get away from perforating. In order to squeeze cement there, you have the difficulty of orientating and so on. We can run- - you run a locator on the small tubing string inside the 2 7/8 and open the sleeve. This opens your tubing to the rock, to the bore hole. And then, the squeeze job can be put into the bore hole and- - at whitever pressure you desire. And excess cement reversed out the small string of tubing. It will actually be a braden head squeese reverse out the small string. This would test the primary cement job, which to me is the most important thing on the multiple.

MR. DURRETT: Thank you. I think that is very adequate.

MR. NUTTER: Any further questions. Witness may be excused. Do you have any further, Mr. McKenna?

MR. McKENNA: No. I would like to offer into evidence Applicant's Exhibits One, Two and Three.

MR. NUTTER: Applicant's Exhibits One, Two and Three will be admitted in evidence. Does anyone have anything they wish to offer in 2906? Take the case under advisement.

\* \* \* \* \*



DEARNLEY, MEIER, WILKINS and CROWNOVER
General Court Reporting Service
Suite 1120 Simms Building Albuqueraue, New Mexico Phone 243-660

STATE OF NEW MEXICO X
COUNTY OF BERNALILLO Y

I, ROY D. WILKINS, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill, and ability.

WITNESS my Hand and Seal of Office, this 18th day of November 1963.

My Commission Expires: September 6, 1967.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case 30.2906.

New Mexico Oil Conservation Commission

heard by se on

