

Shell Western E&P Inc.



A Subsidiary of Shell Oil Company

P.O. Box 576 Houston, TX 77001

May 27, 1987

State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 1980 Hobbs, NM 88240

Gentlemen:

SUBJECT: DIRECTIONAL DRILLING

ORDER NO. DD-14

NORTH HOBBS (G/SA) UNIT

SEC. 28, T-18-S, R-38-E, NMPM

LEA COUNTY, NEW MEXICO

Shell Western E&P Inc., as operator of the North Hobbs Unit, hereby advises you that due to surface use restrictions, it has become necessary to move Well No. 342 to a new surface location. The bottomhole location will remain unchanged. The previously approved and proposed locations are shown on the attached table.

The certified plat submitted with this request indicates the revised location.

Inasmuch as the basis of our original application remains unchanged, we recommend your approval of Shell's proposal to drill this infill producer at the amended location.

We apologize for any inconvenience caused by this change.

Yours very truly,

A. J. Fore

Supervisor Regulatory

and Permitting

Production Administration

Western Division

JMW:TS

Attachment

cc: State of New Mexico

Energy and Minerals Department

Oil Conservation Division

P. O. Box 2088

Santa Fe, NM 87504-2088

NORTH HOBBS (G/SA) UNIT STAKED WELL LOCATION AND TARGET DEPTH

WELL NO. SURFACE LOCATION

NHU-342

202 FNL; 1764 FEL*

Sec. 33, T-18-S, R-38-E

BOTTOM HOLE LOCATION (TARGET 100' RADIUS CIRCLE) 950 FSL; 1650 FEL Sec. 28, T-18-S, R-38-E DEPARTURE & DIRECTION
DISTANCE
1158' NNE

KICK-OFF

DEPTH

500'

*Original Surface Location: 540 FSL & 529 FEL of Sec. 28, T-18-S, R-38-E.

NO. OF COPIES RECEIVED		•	•			
DISTRIBUTION	NEW	MEXICO OU CONS	ERVATION COMMISSIO	N.		-
SANTA FE		· · ·	ERVATION COMMISSIO	/4 \	Form C-101 Revised 1-1-6	5
FILE	7-7				SA. Indicate	Type of Lease
U.S.G.S.		4			STATE	
LAND OFFICE					.5. State Oil 6	& Gas Lease No.
OPERATOR			-	•	ļi .	
				, ·	THITT	
APPLICATIO	N FOR PERMIT TO	DRILL, DEEPEN	OR PLUG BACK			
1a. Type of Work		, .	<u>.</u>		7. Unit Agree	ement Name
b. Type of Well DRILL XX	(Directional	DEEPEN	PLUG	BACK 🗌	North Ho	bbs (GB/SA) Un
OIL XX GAS WELL	OTHER		SINGLE X MU	LTIPLE .	Sec	. 28
2. Name of Operator		er for the second			9. Well No.	
Shell Western E & F	Inc.				34	2
3. Address of Operator						i Pool, or Wildcat
P. O. Box 576 H	<u>louston. Texas</u>	77001			Hobbs GB	/SA
4. Location of Well UNIT LETTE	LOS	ATED 202	FEET PROM THE NORTH	LINE		
1764				-		
AND 1764 FEET FROM	THE LAST LIN	IE OF SEC. 33	TWP. 185 RGE. 38	BE NMPM		
					12. County	
				1111111	Lea	(IIIII)
<i>AHHHHHH</i>			19. Proposed Depth	19A. Formatio		20. Rotary or C.T.
			4400'			
21. Elevations (Show whether DF,	RT etc.) 21A Kind	& Status Plug. Bond	21B. Drilling Contractor	GB/SA		Rotary Date Work will start
3641.1' GR	Blank	the state of the s	Norton Drill	ing Co		0, 1987
23.			NOI CON DITTI	ing co.	T dulle 2	0, 1307
	, F	PROPOSED CASING AN	D CEMENT PROGRAM			
. SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO		SACKS O	F CEMENT	EST. TOP
12 1/4"	9 5/8"	32.3 & 36#	± 1625'	1400 *		Surface
8 3/4"	7" ·	20 & 23#	<u> </u>	1350 **	k	Surface
					1	
• •	1	ı				
Directional	well: BHL Uni	t Letter "O"	950' FSL & 1650	' FEL, Se	ec. 28-18	S-38E
5		:				
* Lead in w/1200			3# salt			
Tail in w/200 s	exs Class "C" +	2% Cac12				ı
	50 F0 D	UAU . CO/ . 3 .	20/ 1+			
** Lead in w/1000			3% sait			
Tail in w/350 s	exs bensatied C	lass "C"	•			
			•			
BOP Program: 30	100# Ram Prevon	tan				
oo mogram. Ju	oon nam rievell					
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			•			
IN ABOVE SPACE DESCRIBE PR TIVE ZONE, GIVE BLOWOUT PREVENT	OPOSED PROGRAM: IF ER PROGRAM, IF ANY.	PROPOSAL IS TO DEEPEN	OR PLUG BACK, GIVE DATA	ON PRESENT PR	ODUCTIVE ZONE	AND PROPOSED NEW PRODU
I hereby certify that the information	on above is true and com	plete to the best of my	knowledge and belief.			*
. C. L Full	/	o mar Sunu - Boo	& Dormits		Date MAY 2	7, 1987
Signed 1	A. J. FOR	e Tille <mark>Supv. Re</mark> g	. a retuits		Date	
(This space for	State Use)		,			
APPROVED BY		_ TITLE			DATE	

CONDITIONS OF APPROVAL, IF ANY:

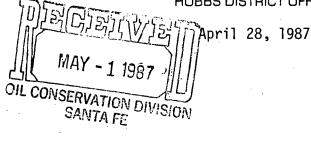
		Ail distances must be fr	one the outer bounds	irles of the Section	n.	
Operator SHELL W	ESTERN E & P	INC.	North Hob	bs Unit SF	CTION 28	Well No.
Unit Letter	Section	Township	. Range	County	011011 60	
В	33	18 South	38 Eas	1 -	.ea	
Actual Foolage Lo	cation of Well:					
1764	feet from the	Fast line and	202	feet from the	North	line
Ground Level Elev	. Producing F	ormation	Pool		Dedi	cated Acreage:
3641.1	GRAYBUF	RG/SAN ANDRES	HOBBS GB	/SA		40 Acres
1 Outline t	he acreage dedic	ated to the subject we	ll by colored pe	ncil or hachur	e marks on the pl	at below.
	8				•	
2. If more t	han one lease is	s dedicated to the well	, outline each a	nd identify the	ownership there	of (both as to working
	ind royalty).				•	
•						
		different ownership is o		well, have the	interests of all	owners been consoli-
dated by	communitization,	unitization, force-pooling	ng. etc?		190	
Έ ν ν	□ N _a If		f aanaalidatian		UNITIZATIO	vije in de la dela de
X Yes	∐ No If	answer is "yes," type o	. Consolidation .		OUT (TVALIA)	
If answer	is "no" list the	owners and tract descr	rintions which h	ave actually h	een consolidated	(l'se reverse side af
	if necessary.)	United and additional			oon consolidated.	. tose ieverse side of
		ned to the well until all	interests have	been consolida	ited (by communi	tization unitization
		e) or until a non-standard			-	
sion.						the domains
	L 1	K	J J		CE	RTIFICATION
		^	i			
	!		1		I hereby certify	y that the information con-
			. 1		tained herein i	s true and complete to the
	•		1		best of my kno-	wledge and belief.
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	+	(2 8)			- / · / ·	ul A. J. FORE
	N I		Bottor	n Hole located	Position	
	·I		950' 8	S.L. & 1650'	SUPV, REG.	& PERMITS
	1		/i F.E.L.	, Sec.28, S, R-38-E	Company	
		_	-aii		SHELL WESTE	RN E&P INC.
	• 1	- 1	192	•	Date	
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r			9 676	RVEYO	4	•
	- !	F	676		Date Surveyed	
	l l			,o /≈/i	May 15.	. 1987
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1			W IN	WEST	and/or Land Surv	
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	1		<i>t</i> 1		11 X/hm	11/11/19
	and the second second				Contilicate No.	JOHN W. WEST, 676
0 330 660	190 1320 1650 1	980 2310 2640 2000	1500 1000		o A	ONALD J. EIDSON, 3239

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

GARREY CARRUTHERS
GOVERNOR



POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501		1010-	14	
RE: Proposed: MC DHC NSL XX NSP SWD WEX PMX	& Directionally Drill	I <u>X</u>		
Gentlemen:				
I have examined the application Shell Western E&P Inc.	ation for the: North Hobbs GB/SA Un	Sec. 33 412 it Sec. 28 #342	33-18-38 28-18-38	(NSL)
Operator	Lease & Well No. U	nit S-T-R		
and my recommendations are	as follows:		· ·	
OKJerry Sexton				·
Yøgrs very truly		4.		•
Jerry Septon				
Jerry Sexton Supervisor, District 1				

The source of th

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT



OIL CONSERVATION DIVISION

May 26, 1987

GARREY CARRUTHERS

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

Shell Western E&P Inc. P. O. Box 576 Houston, Texas 77001

Attention: A. J. Fore

ADMINISTRATIVE ORDER DD-14

Gentlemen:

Under the provisions of Rule 111 (C) and (D), Shell Western E&P, Inc. made application to the New Mexico Oil Conservation Division on April 24, 1987, for permission to directionally drill and complete for the production of oil in the Hobbs Grayburg San Andres Pool their North Hobbs Grayburg San Andres Unit Section 28 Well No. 342.

The Division Director Finds That:

- (1) The application has been duly filed under the provisions of Rule 111 (D) of the Division Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators have been duly notified;
- (3) The applicant, Shell Western E&P Inc., proposes to drill their North Hobbs Grayburg San Andres Unit Section 28 Well No. 342 at a surface location 540 feet from the South line and 529 feet from the East line (Unit O) of Section 28, Township 18 South, Range 38 East, NMPM, Hobbs Grayburg San Andres Pool, Lea County, New Mexico.
- (4) The applicant seeks to directionally drill said well by kicking off from the vertical at a depth of approximately 500 feet and drilling in such a manner as to penetrate said pool at a standard oil well location 950 feet from the South line and 1650 feet from the East line (Unit P) of said Section 28.

- (5) The SE/4 SE/4 (Unit P) of Section 28 should be dedicated to the well.
- (6) The applicant should be required to determine the subsurface location of the bottom of the hole by means of a continuous multi-shot directional survey conducted subsequent to said directional drilling, if said well is to be completed as a producing well.
- (7) Approval of the subject application will prevent the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The applicant, Shell Western E&P, Inc., is hereby authorized to directionally drill its North Hobbs Grayburg San Andres Unit Section 28 Well No. 342 from a standard surface location 540 feet from the South line and 529 feet from the East line (Unit O) of Section 28, Township 18 South, Range 38 East, NMPM, HObbs Grayburg San Andres Pool, Lea County, New Mexico, by kicking off from the vertical at a depth of approximately 500 feet, and drilling in such a manner as to penetrate said pool at a standard oil well location 950 feet from the South line and 1650 feet from the East line (Unit P) of Section 28.

PROVIDED HOWEVER, that prior to the above-described directional drilling, the applicant shall establish the location of the kick-off point by conducting a continuous multi-shot directional survey of the well.

PROVIDED FURTHER, that subsequent to the above-described directional drilling, should said well be a producer, a continuous multi-shot directional survey shall be made of the wellbore from total depth to the kick-off point with shot points not more than 100 feet apart; that the operator shall cause the surveying company to forward a copy of the survey report directly to the Santa Fe office of the Division, P. O. Box 2088, Santa Fe, New Mexico 87501, and the operator shall notify the Division's Hobbs District Office of the date and time said survey is to be commenced.

- (2) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.
- (3) The SE/4 SE/4 (Unit P) of said Section 28 shall be dedicated to the subject well.

(4) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

WILLIAM J. LEMAY, Director

S E A L

Shell Western E&P Inc.

A Subsidiary of Shell Oil Company



P.O. Box 576 Houston, TX 77001

April 21, 1987

State of New Mexico Energy & Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe. NM 87504-2088

Gentlemen:

SUBJECT: APPLICATION FOR ADMINISTRATIVE APPROVAL TO

DIRECTIONALLY DRILL NORTH HOBBS (GB/SA) UNIT SECTION 28 NO. 342 & SECTION 33 NO. 412 AND FOR AN UNORTHODOX LOCATION FOR NO. 412 See NSL-2346 (pp)

HOBBS ((GB/SA) POOL

LEA COUNTY, NEW MEXICO

Shell Western respectfully requests administrative approval to directionally drill its North Hobbs (GB/SA) Unit Nos. 342 & 412. The location of the wells are shown on the attachment. Additionally, we request approval for an unorthodox location for well No. 412 with respect to the required distance from the 1 1 proration unit.

Both wells will be drilled within the city limits of Hobbs, New Mexico where surface use restrictions prevent the drilling of vertical holes at the desired locations. These wells are necessary to complete an efficient production and injection pattern, thereby maximizing oil recovery in areas where waterflood oil will be by-passed with the current injection-production well configuration.

By copy of this letter and attachments, we have notified, by certified mail, the operators shown on the attached service list.

Very truly yours,

A. J. Fore

Supervisor Regulatory

and Permitting

Production Administration

Western Division

AJF:TS

Attachments

cc: State of New Mexico Energy & Minerals Division Oil Conservation Division P. O. Box 1980 Hobbs, NM 88240

SERVICE LIST

Offset Operators
Amoco Production Company
P. 0. Box 68
Hobbs, NM 88240

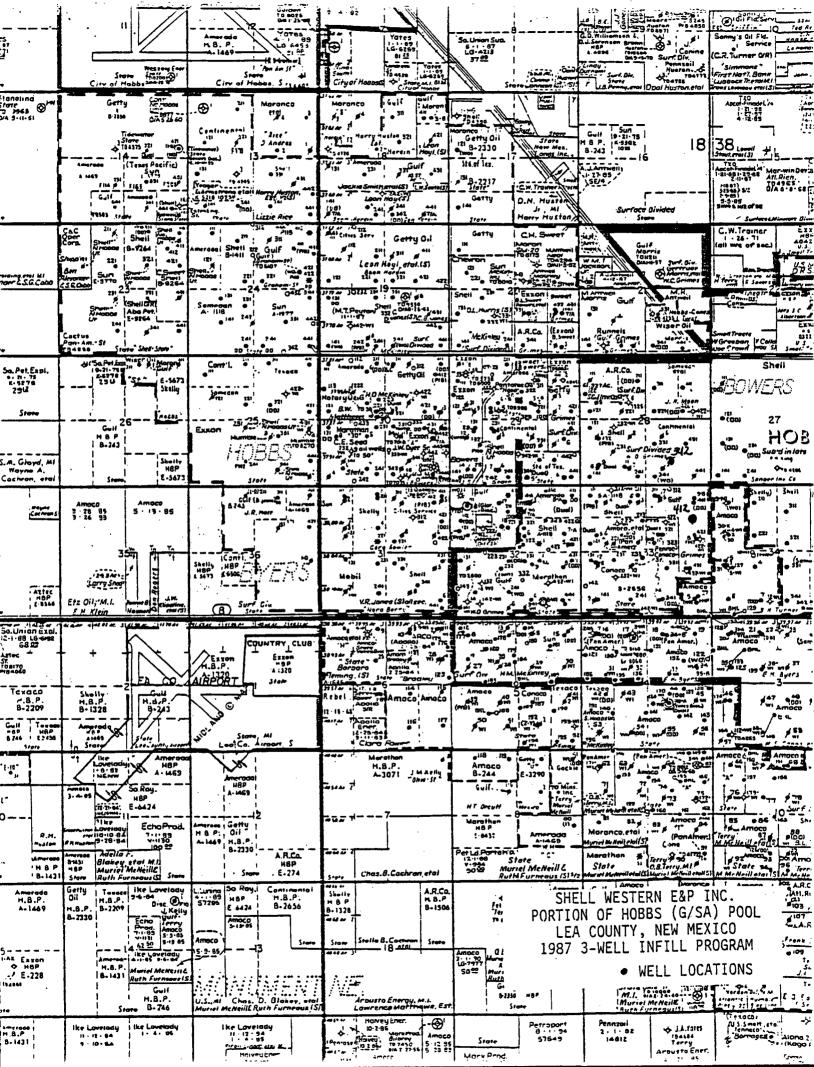
Conoco, Inc. P. O. Box 460 Hobbs, NM 88240

Chevron USA P. O. Box 670 Hobbs, NM 88240

1987 NORTH HOBBS UNIT DRILLING PROGRAM STAKED WELL LOCATIONS AND TARGET DEPTHS

WELL NO.	SURFACE LOCATION	BOTTOM HOLE LOCATION (TARGET 100' RADIUS CIRCLE)	KICK-OFF DEPTH	DEPARTURE & DIRECTION DISTANCE
NHU-342	540 FSL; 529 FEL Sec. 28, T-18-S, R-38-E	950 FSL; 1650 FEL Sec. 28, T-18-S, R-38-E	500'	1194 NW
NHU 412*	1973 FNL & 530 FEL Sec. 33, T-18-S, R38-E	1300 FNL & 750 FEL Sec. 33, T-18-S, R-38-E	500'	708 NNW

^{*}Well No. 412 is unorthodox with respect to $\frac{1}{4}$ $\frac{1}{4}$ proration unit



Aleva Tour



Shell Western E&P Inc.

A Subsidiary of Shell Oil Company

P.O. Box 576 Houston, TX 77001

April 20, 1987

City of Hobbs ATTN Bob Gallagher 300 North Turner Hobbs, NM 88240

Gentlemen:

SUBJECT: PROPOSED INFILL PRODUCERS

SHELL WESTERN NORTH HOBBS (GB/SA) UNIT

LEA COUNTY, NEW MEXICO

This is to advise you that Shell Western E&P Inc. proposes to drill three NHU infill producers within the city of Hobbs. The well numbers and locations are attached.

Shell Western, of course, will make the necessary arrangements to notify residents in the immediate area prior to starting operations. For your information, we have also attached a plat showing the proposed well locations.

Your contact person within Shell Western will be Mr. J. L. Clark - Drilling Superintendent - Phone No. (713) 870-2966.

We appreciate the usual cooperation of the City of Hobbs.

Very truly yours,

A. J. Fore

Supervisor Regulatory

and Permitting

Production Administration

Western Division

AJF:TS

Attachment

NO. OF COPIES RECEIVED	1								δ
DISTRIBUTION		NEW	MEXICO OIL CONSE	RVATION CO	MMISSION	:	Form C-101		
SANTA FE						1	Revised 1-1-6		
FILE								Type of Lease	 ר
U.S.G.S.	1						STATE	FEE X	<u></u>
LAND OFFICE OPERATOR	+				•		.s. State OII	& Gas Lease No.	
OPERATOR						ł	mm	amman	TTTT
APPLICATIO	N FOR PE	RMIT TO	DRILL, DEEPEN,	OR PLUG B	ACK				.////
1a. Type of Work	1110111	141111111	DICILL, DELI CIT,	<u> </u>	ACK		7. Unit Agre	ement Name	7777
2011	Dinocti	nn 1	perney [5		North Ho	bbs (GB/SA)	Uni
o. Type of well	Direction	Jila i	DEEPEN		PLUG B	ACK L	8. Form or L		
OIL XX GAS WELL	отн	ER		ZONE X	MULT	IPLE	Se	c. 28	•
2. Name of Operator							9. Well No.		
Shell Western E & P	Inc.						34	12	-
3. Address of Operator			-				10. Field on	d Pool, or Wildcat	
	ouston,	Texas	77001				Hobbs GE	3/SA	
4. Location of Well unit LETTE	_R <u>P</u>	LOC	ATED <u>540</u> F	EET FROM THE _	<u>South</u>	LINE			
E30		<u>.</u>	00	100	201	_ }			
AND 529 FEET FROM	THE East	TTTTT	E OF SEC. 28	wp. 185	RGE. 381	NMPM	12, County	<i>millilli</i>	444
	HHH	HHH	/////////////////////////////////////	HHH	HHH	<i>HHHH</i>	Lea	HHHmm	444
	HHH	+++++	/////////////////////////////////////	9. Proposed De	epth 19	A. Formation	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20. Rotary or C.T.	7777
				4400'	10	BB/SA	•	Rotary	
21. Elevations (Show whether DF,	RT, etc.)	21A. Kind	& Status Plug. Bond 2	1B. Drilling Co			22. Approx	. Date Work will sto	
3235.9'Gr.		Blanke	et	Norton	Drilli	ng Co.	June 1	, 1987	
23.		P	ROPOSED CASING AND	CEMENT PRO	DGRAM				
SIZE OF HOLE	SIZE OF	CASING	WEIGHT PER FOOT	SETTING	DEPTH	SACKS OF	CEMENT	EST. TOP	
12 1/4"	9 5/8'		32.3 & 36#	± 1625		1400 *		Surface	
8 3/4"	7"		20 & 23#	± 4400) !.	1350 **		Surface	
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				1		l			
Directional	well: E	3HL Unit	Letter "0" 9	50' FSL &	1650'	FEL, Se	c. 28-18	S-38E	
			•						
* Lead in w/1200				3# salt					
Tail in w/200 s	xs Class	s "C" +	2% Cac12			•			
			1811 - 60/ 7 -	000 - 3.5					
** Lead in w/1000	SXS 50-5	00 POZ "	'A" + 6% gel +	3% Sait					
Tail in w/350 s	xs vens	itiea Ci	ass "C"						
BOP Program: 30	OO# Ram	Prevent	er		-				
	oon nam	11 CVCIII	,						
*						. ,			
•									
	OPOSED PR		PROPOSAL IS TO DEEPEN O	R PLUG BACK, GI	VE DATA ON	PRESENT PRO	DUCTIVE ZONE	AND PROPOSED NEW	PRODUC
hereby certify that the information	n above is tr	ue and comp	elete to the best of my kr	nowledge and b	elief.	-	-		
Signed	<u>.</u> А.	J. Fore	Title Supv. Reg.	<u>& Permit</u>	s	<i>L</i>	ate4/	20/87	
(This space for :	State Use)								
APPROVED BY			TITLE				ATE		

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

		All distar	nces must be from	the outer bounder	tes of the Section	·	
Operator Shell	Western E &	P Inc.	Lex		Hobbs Unit	SECTION	28 Weil No. 342
Unit Letter P	Section 28	Township 18 Sou	ıth	Romge 38 East	County	Le	a
Actual Footage Loc	ation of Well:	south	line and	. 529	feet from the	east	line
Ground Level Elev.	Producing F	ormation	Poo				Dedicated Acreage:
3635.9		San Andr		lobbs GB/S/			40 Acres
	e acreage dedic	•		•			e plat below. nereof (both as to working
	nd royalty).	• dedicated	to the well, of	attine caen an	d lucinity the	ownership u	icrest (both as to working
	an one lease of communitization,				well, have the	interests of -	all owners been consoli-
X Yes	☐ No If	answer is ''	yes!" type of co	nsolidation _	Uniti	zation	
-		owners and	d tract descript	ions which he	ve actually be	en consolida	ated. (Use reverse side of
	if necessary.) ble will be assig	ned to the w	ell until all int	erests have b	een consolidat	ed (by com	munitization, unitization,
	=						approved by the Commis-
	!		· · ·		T		CERTIFICATION
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	 			是- -ND	-99	Name A. J. Fo	
	1			676	(F)	Position	stern E&P Inc.
	!		ji i	JOHN ME	NES	Company	
	1			70 00		Date	g. & Permits
				· 		April 20	, 1987
NOTE:	i : THI\$ LOCATI					I hernby	certify that the well location
			E LOCATION 9 AND 1650 FE				this plat was platted from field actual surveys made by me or
	EAST LINE.			1		1	supervision, and that the same
	1			. 		1	e and belief.
		i i	Bottom Hole Location			Deta Co	
	1		e 1650 -	1194	28-342		mber 13, 1986
	 		ŷŚ	 #28-44	529	Registered and/or Mand	Professional Engineer I Surveyor
	<u> </u>				- 54		MUS
		200	40 2000	1500 1000	800	Certificate	NO. JOHN W. WEST, 676 RONALD J. EIDSON, 3239

1500

2000

190 1320 1680 1980 2310 2640

330 660

1000

NO. OF COPIES RECEIVED									
DISTRIBUTION		NEW	MEXICO OIL CONSE	RVATION CO	MMISSION		Form C-101		
SANTA FE							Revised 1-1-6	35	
FILE	 						Г	Type of Lease	1
U.S.G.S.							STATE _	FEE X	<u></u>
CAND OFFICE						ì	.5. State OII	& Gas Lease No.	
OFERATOR						ŀ	,,,,,,,	amanana da	rr
APPLICATIO	N FOR PF	PMIT TO	DRILL, DEEPEN,	OR PLUG B	ACK				////
1a. Type of Work	11,10111	TOTAL TO	DICILL, DELI LIV,	OK 1 200 B	ACIV.		7. Unit Agre	ement Name	7777
(V)	D:	7					Varth Ha	bbs(GB/SA) U	lni+
b. Type of Well	Directi	onai	DEEPEN		PLUG B	ACK [_]	8. Form or L		1116
OIL X GAS WELL	OTH	ER	•	SINGLE X	MULT	IPLE	•	Sec. 33	
2. Name of Operator						<u> </u>	9. Well No.	900. 00	
Shell Western F & 3. Address of Operator	P. Inc.							412	
							10. Field on	d Pool, or Wildcat	
	<u>Houston,</u>						Hobbs G	B/SA	
4. Location of Well UNIT LETTE	R <u>H</u>	Loc	ATED 1973 F	EET FROM THE	<u>North</u>	LINE			
500	<u> </u>		20	100		}			////
AND 530 FEET FROM	THE East		E OF SEC. 33	wp. 185	PGE. 38	ENMPM	7777777	<i>1111111111</i>	<i>1111</i>
							12. County		IIII
	HHH	HHH		HHHH	4444	HHH	Lea	HHH	444
									IIII
	HHH	+++++		9. Proposed De	pth 19	A. Formation	,,,,,,,,,	20, Rotary or C.T.	7777
				± 4400	, _G	B/SA		Rotarv	
21. Elevations (Show whether DF,	RT, etc.)	21A. Kind	& Status Plug. Bond 2	1B. Drilling Co		<u>0/ JA</u>		. Date Work will sta	rt
3635.8'Gr.		Blan	ket	Norton !	Drillin	a Co.	June 1	. 1987	
23.			ROPOSED CASING AND						
		<u> </u>	KOPOSED CASING AND	CEMENT PRO	JGRAM				
SIZE OF HOLE	SIZEOF	CASING	WEIGHT PER FOOT	+		SACKS OF	CEMENT	EST. TOP	
12 1/4" 8 3/4"	9,5/	<u>8"</u>	32.3.8.36#	± 1625		1400 *		Surface	
8 3/4"	/"		20 & 23#	<u>± 4400</u>	· · · · · · · · · · · · · · · · · · ·	1350 **		Surface	
	• 								
Directional w	ell: Uni	t Lette	r "A" 1300' FNI	. & 750' F	EL. Se	c. 33-18	S-38F	•	
	Uno	thordox	with respect t	o 1/4 1/4	Sec.		3 302		
* Lead in w/120	00 sxs 5	0-50 Po	z "C" + 6% gel	+ 3% salt	•				
Tail in w/200	o sxs Cl	ass "C"	+ 2% Cacl2			•			
** Lead in w/100	00 sxs 50	J-50 Po:	z "A" + 6% gel	+ 3% salt					
T :: '05'			07 11011						
Tail in w/350	J sxs Dei	isitied	Class "C"			•			
Don n		_							
BOP Program:	3000# R	am Prev	enter				•		
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N ABOVE SPACE DESCRIBE PR TIVE ZONE. GIVE BLOWOUT PREVENT	OPOSED PR	JGRAM: IF ! IF ANY.	PROPOSAL IS TO DEEPEN O	m PLUG BACK, GI	VE DATA ON	FRESENT PRO	OULIIVE ZONE	AND PROPOSED NEW I	-RUDUC4
hereby certify that the information	n above is tr	ue and comp	plete to the best of my ki	nowledge and b	ellef.				
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Signed	Α	J. Fore	Title Supv. Reg.	& Permit	.5		ate4/	/20/87	
(This space for	State Use)								
	•								
APPROVED BY							ATE		

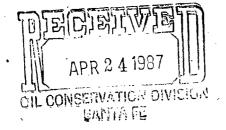
CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-102 Supersedes C-128 Effective 1-1-65

WELL LOCATION AND ACREAGE DEDICATION PLAT

Shell Western E & P Inc Lease North Hobbs Unit SECTION 33 Validation North Hobbs Unit SECTION North Hobbs Unit SECTION 33 Validation North Hobbs Unit SECTION 33 Validation North Hobbs Unit SECTION 33 Validation North Hobbs Unit Section North			All distances must be from	the outer boundaries of	the Section.	
Actual Footness Lacentons of Well: 1973 feet Inten the north time and S30 feet Inten the north time and S30 feet Inten the north foreign feet Inten the north feet Intended Acres (Add) Acres (Ad)		Western E & I			Unit SECTION 3	33 Weil No. 412
1973)					
Genome Lyrel Elev. Producting Formation Pool			orth	530	east	
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royslty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? We yes \(\text{NO} \) If answer is "yes," type of consolidation \(\text{Unitization} \) If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. Description	<u></u>	teet nom the	Title wid		of from the	
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? WY Yes \(\square\$ No \(\) If answer is "yes," type of consolidation \(\square\$ Unitization \) If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION 1. hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. NOTE: THIS (LOCATION IS TO BE DIRECTIONALLY) PRILLED, BOTTOM HOLE (LOCATION 1300) FEET (FROM THE NORTH LINE AND 750 FEET) FROM THE EAST LINE. NOTE: THIS (LOCATION IS TO BE DIRECTIONALLY) PRILLED, BOTTOM HOLE (LOCATION 1300) FEET (FROM THE NORTH LINE AND 750 FEET) FROM THE EAST LINE. Date Surveyed December 13, 1986 Registered Prolessional Engineer and/or Lone Surveyor Additional Commission of the the same is true and correct to the best of my knowledge and belief. Date Surveyed December 13, 1986	1					40
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dated by communitization, unitization, force-pooling, etc? XX Yes			dedicated to the well,	outline each and ide	entify the ownership	thereof (both as to working
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Shell Western E&P Inc.

P.O. Box 576 Houston, TX 77001

April 21, 1987

State of New Mexico Energy & Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87504-2088

Gentlemen:

SUBJECT: APPLICATION FOR ADMINISTRATIVE APPROVAL TO

DIRECTIONALLY DRILL NORTH HOBBS (GB/SA) UNIT SECTION 28 NO. 342 & SECTION 33 NO. 412 AND FOR AN UNORTHODOX LOCATION

FOR NO. 412

HOBBS (GB/SA) POOL LEA COUNTY, NEW MEXICO

Shell Western respectfully requests administrative approval to directionally drill its North Hobbs (GB/SA) Unit Nos. 342 & 412. The location of the wells are shown on the attachment. Additionally, we request approval for an unorthodox location for well No. 412 with respect to the required distance from the $\frac{1}{4}$ provation unit.

Both wells will be drilled within the city limits of Hobbs, New Mexico where surface use restrictions prevent the drilling of vertical holes at the desired locations. These wells are necessary to complete an efficient production and injection pattern, thereby maximizing oil recovery in areas where waterflood oil will be by-passed with the current injection-production well configuration.

By copy of this letter and attachments, we have notified, by certified mail, the operators shown on the attached service list.

Very truly yours,

a. Jul

A. J. Fore

Supervisor Regulatory and Permitting

Production Administration

Western Division

AJF:TS

Attachments

cc: State of New Mexico
Energy & Minerals Division
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

SERVICE LIST

Offset Operators
Amoco Production Company
P. O. Box 68
Hobbs, NM 88240

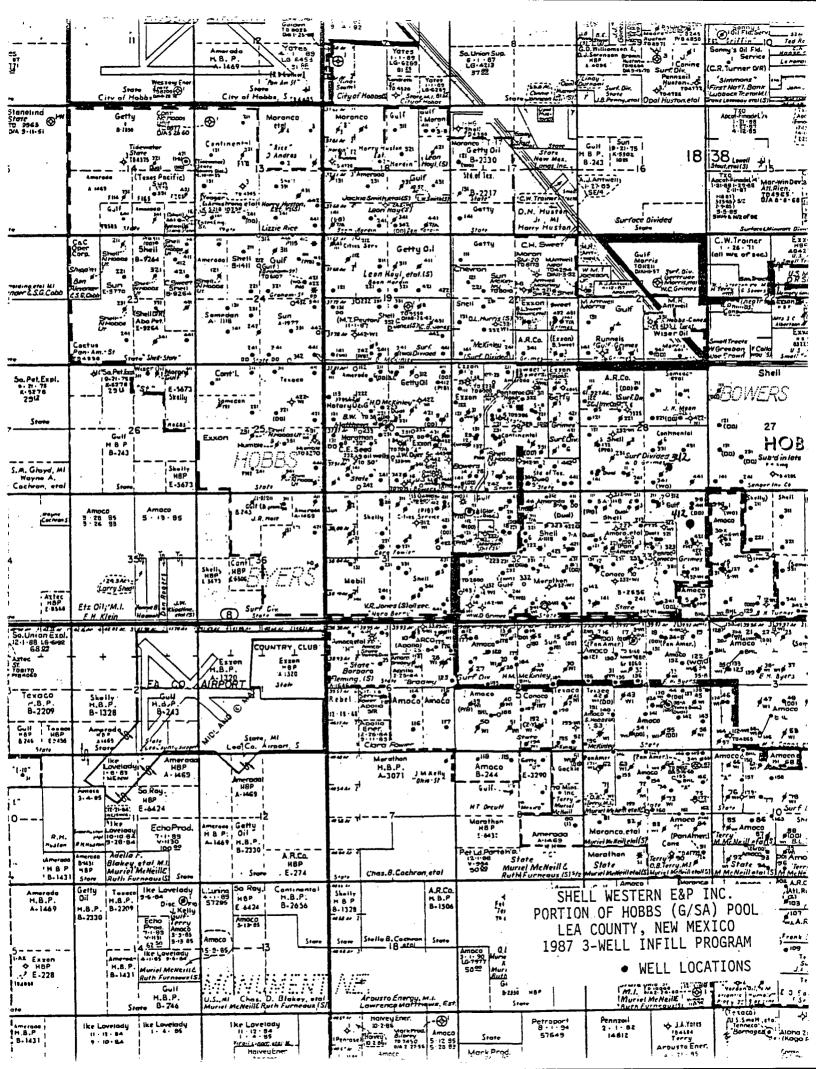
Conoco, Inc. P. O. Box 460 Hobbs, NM 88240

Chevron USA P. O. Box 670 Hobbs, NM 88240

1987 NORTH HOBBS UNIT DRILLING PROGRAM STAKED WELL LOCATIONS AND TARGET DEPTHS

WELL NO.	SURFACE LOCATION	BOTTOM HOLE LOCATION (TARGET 100' RADIUS CIRCLE	KICK-OFF DEPTH	DEPARTURE & DIRECTION DISTANCE
NHU-342	540 FSL; 529 FEL Sec. 28, T-18-S, R-38-E	950 FSL; 1650 FEL Sec. 28, T-18-S, R-38-E	500'	1194 NW
NHU 412*	1973 FNL & 530 FEL Sec. 33, T-18-S, R38-E	1300 FNL & 750 FEL Sec. 33, T-18-S, R-38-E	500'	708 NNW

^{*}Well No. 412 is unorthodox with respect to $\frac{1}{4}$ $\frac{1}{4}$ proration unit



Alore Fore





P.O. Box 576 Houston, TX 77001

April 20, 1987

City of Hobbs ATTN Bob Gallagher 300 North Turner Hobbs, NM 88240

Gentlemen:

SUBJECT: PROPOSED INFILL PRODUCERS

SHELL WESTERN NORTH HOBBS (GB/SA) UNIT

LEA COUNTY, NEW MEXICO

This is to advise you that Shell Western E&P Inc. proposes to drill three NHU infill producers within the city of Hobbs. The well numbers and locations are attached.

Shell Western, of course, will make the necessary arrangements to notify residents in the immediate area prior to starting operations. For your information, we have also attached a plat showing the proposed well locations.

Your contact person within Shell Western will be Mr. J. L. Clark - Drilling Superintendent - Phone No. (713) 870-2966.

We appreciate the usual cooperation of the City of Hobbs.

Very truly yours,

A. J. Fore

Supervisor Regulatory

and Permitting

Production Administration

Western Division

AJF:TS

Attachment

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NO. OF COPIES RECEIVED		•	· •		•	
DISTRIBUTION	NEW	MEXICO OIL CONSER	RVATION COMMISSI	ON	Form C-101	•
SANTA FE			•		Revised 1-1-	
FILE	<u> </u>		•		1	e Type of Lease
U.S.G.S.					STATE	
LAND OFFICE			•		.5. State Oil	& Gas Lease No.
OPERATOR						
(55) (6) 710		DOM: DEEDEN	S 51 116 5 1 614		_//////	
	N FOR PERMIT TO	DRILL, DEEPEN, O	DR PLUG BACK			
1a. Type of Work				•	,	eement Name
b. Type of Well DRILL XX	(Directional	DEEPEN 🔙	PLUC	BACK 🗌		obbs (GB/SA) Uni
011 17771 648	, 		aingre 🚺 w	ULTIPLE	- 1	Lease Name
WELL AA WELL 2. Name of Operator	OTHER		ZONE LA	ZONE ZONE		c. 28
·					9. Well No.	
Shell Western E & F 3. Address of Operator	inc.	 				42 nd Pool, or Wildcat
•	Investor Tours	77001		* *	• 1	· .
4. Location of Well	<u>louston, Texas</u>	77001	Courth		Hobbs G	LLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLLL
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AND 529 FEET FROM	THE East LIN	1E OF SEC. 28 TV	NP. 185 RGE. 3			
AND 349 FEET FROM		HE OF SEC. 28	VP. 183 RGE.	MN 386	12. County	
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	HHHHHH		9. Proposed Depth	19A. Form	ution	20, Rotary or C.T.
			4400'	GB/SA		Rotary _
21. Elevations (Show whether DF,	RT, etc.) 21A. Kind	& Status Plug. Bond 2	1B. Drilling Contractor		22. Appro	x. Date Work will start
3235.9'Gr.	Blank		Norton Dril			1, 1987
23.						
	f	PROPOSED CASING AND	CEMENT PROGRAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPT	H SACKS	OF CEMENT	EST. TOP
12 1/4"	9 5/8"	32.3 & 36#	± 1625'	1400	*.	Surface
8 3/4"	7"	20 & 23#	± 4400!	1350	**	Surface
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		1				
Directional	l well: BHL Uni	t Letter "0" 9	50' FSL & 1650)' FEL,	Sec. 28-1	8S-38E
			**			•
* Lead in w/1200			3# salt			•
Tail in w/200 s	sxs Class "C" +	2% Cac12	:		•	•
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** Lead in w/1000	sxs 50-50 Poz	"A" + 6% gel + :	3% salt		e e e e e e e e e e e e e e e e e e e	
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DOD Diag 04	100# :D P	.		-		•
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hereby certify that the informati	on above is true and com	plete to the best of my kr	owledge and belief.			
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Signed US Stute	A. U. FOR	E tare anha VEA	<u> </u>		DateT	<u> </u>
(This space for	State Use)					•
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CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

		All distanc	es must be from t	ne suter bounder	es of the Section	l.	<u> </u>	
Operator She11	Western E & F	Inc.	Leo		Hobbs Unit	SECTION 28	Well No.	
Unit Letter P	Section 28	Township 18 Sout	h	Runge 38 East	County	Lea		-
Actual Footage Loc 540	ation of Well:	south	line and	529	feet from the	east	line	
Ground Level Elev. 3635.9	Producing For Grayburg/S		P∞	lobbs GB/SA	E1	Dedic	ated Acreage:	
	e acreage dedica					marks on the pla		cres
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X Yes	☐ No If ar	nswer is "ye	es," type of co	nsolidation	<u>Uniti</u>	zation		
and the second s	is "no," list the	owners and	tract descripti	ions which ha	ve actually be	en consolidated.	(Use reverse side	e of
No allowat	f necessary.) ble will be assigno ling, or otherwise)					•		
sion.		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	<u> </u>		····
			AEGISTERS	PROFESSION SUR 676	STICTION OUTER	I hereby certify tained herein is best of my know	n E&P Inc. Permits	
NOTE:	THIS LOCATIO DRILLED, BOT FROM THE SOU EAST LINE.	TOM HOLE	LOCATION 9	50 FEET		shown on this pl notes of actual under my superv	r that the well locat at was plotted from fi surveys made by me ision, and that the so rect to the best of elief.	ield e or ame
	 	Lo	ocation Hole ocation 1650	#28-44	-54	Date Surveyed December Registered Profess and/or Mand Survey	sional Engineer yor	
0 330 660	190 1320 1680 198	0 2310 2640	2000	1500 1000	80Q O			676 3239

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DISTRIBUTION	·		-			-	
SANTA FE	NEW	MEXICO OIL CONS	ERVATION COMMISSION	N ·	Form C-101 Revised 1-1-	e 5	
FILE	 						
					F	Type of Leas	
U.S.G.S.					STATE		E X
LAND OFFICE	<u> </u> .	•			.5, State Oil	& Gas Lease 1	No.
OPERATOR		•					
		· · · · · · · · · · · · · · · · · · ·	·				
	N FOR PERMIT TO	DRILL, DEEPEN	, OR PLUG BACK				
1a. Type of Work					7. Unit Agre	ement Name	
Deu I V	Directional	DEEPEN 🗌	DLUC		North Ho	bbs(GB/S/	A) Unit
b. Type of Well	Directional	DEEFEN	PLUGI	BACK	8. Form or L		17 01110
OIL X GAS WELL	OTHER	•	SINGLE X MUL	TIPLE .		Sec. 33	٠.
2. Name of Operator			20112 222	2002	9. Well No.	<u> </u>	
Chall Wastern F 0	D T	•				412	
Shell Western F &	P Inc.	, 			10. Field or	nd Pool, or Wild	icat
P. O. Box 576,	Houston Toxas	77001			Hobbs G		
4. Location of Well			Nanabla		777777	CLILLIAN SOLON	mm
UNIT LETTE	.R <u> H</u>	1973	FEET FROM THE North	LINE			
F20	F +	ງາ	700 0	0.			
AND 530 FEET FROM	THE East	NE OF SEC. 33	TWP. 185 RGE. 3	8E NMPM	12. County	111/1/11/11	44444
		/////////////////////////////////////	44444444		Lea	444	711111
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			7711111		7777777
			+	9A. Formation	1	20. Rotary or	C.T.
				GB/SA		Rotary	
21. Elevations (Show whether DF,		& Status Plug. Bond	21B. Drilling Contractor		22. Approx	. Date Work wi	ll start
3635.8'Gr.	Blar	iket	Norton Drilli	ng Co.	June 1	, 1987	
23.		BOBOSED CASING A	ID CEMENT BROCKAN				
	•	RUPUSED CASING AI	ND CEMENT PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	T SETTING DEPTH	SACKS OF	CEMENT	EST.	TOP
			SETTING DEPTH	SACKS OF 1400 *	CEMENT	 	TOP
SIZE OF HOLE 12 1/4" 8 3/4"	SIZE OF CASING 9 5/8" 7"	WEIGHT PER FOO 32.3 & 36# 20 & 23#				Surface	ТОР
		32.3 & 36#	± 1625'	1400 *		 	ТОР
12 1/4" 8 3/4"	9 5/8" 7"	32.3 & 36# 20 & 23#	± 1625' ± 4400'	1400 * 1350 *	k	Surface	ТОР
12 1/4" 8 3/4"	9 5/8" 7" ell: Unit Lette	32.3 & 36# 20 & 23# er "A" 1300' Fi	± 1625' ± 4400' NL & 750' FEL, Se	1400 * 1350 *	k	Surface	тор
12 1/4" 8 3/4"	9 5/8" 7" ell: Unit Lette	32.3 & 36# 20 & 23# er "A" 1300' Fi	± 1625' ± 4400'	1400 * 1350 *	k	Surface	тор
12 1/4" 8 3/4" Directional w	9 5/8" 7" ell: Unit Lette Unothordox	32.3 & 36# 20 & 23# r "A" 1300' Fi with respect	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec.	1400 * 1350 *	k	Surface	ТОР
12 1/4" 8 3/4" Directional w * Lead in w/12	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po	32.3 & 36# 20 & 23# r "A" 1300' Fi with respect x "C" + 6% ge	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec.	1400 * 1350 *	k	Surface	ТОР
12 1/4" 8 3/4" Directional w * Lead in w/12	9 5/8" 7" ell: Unit Lette Unothordox	32.3 & 36# 20 & 23# r "A" 1300' Fi with respect x "C" + 6% ge	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec.	1400 * 1350 *	k	Surface	ТОР
12 1/4" 8 3/4" Directional w * Lead in w/12	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po	32.3 & 36# 20 & 23# r "A" 1300' Fi with respect x "C" + 6% ge	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec.	1400 * 1350 *	k	Surface	TOP
12 1/4" 8 3/4" Directional w * Lead in w/120 Tail in w/200	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po 0 sxs Class "C"	32.3 % 36# 20 % 23# er "A" 1300' Fi with respect x "C" + 6% ge + 2% Cacl2	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt	1400 * 1350 *	k	Surface	TOP
12 1/4" 8 3/4" Directional w * Lead in w/120 Tail in w/200	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po	32.3 % 36# 20 % 23# er "A" 1300' Fi with respect x "C" + 6% ge + 2% Cacl2	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt	1400 * 1350 *	k	Surface	TOP
12 1/4" 8 3/4" Directional w * Lead in w/120 Tail in w/200	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po 0 sxs Class "C"	32.3 % 36# 20 % 23# er "A" 1300' Fi with respect x "C" + 6% ge + 2% Cacl2	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt	1400 * 1350 *	k	Surface	TOP
12 1/4" 8 3/4" Directional w * Lead in w/120 Tail in w/200 ** Lead in w/100	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po 0 sxs Class "C"	32.3 % 36# 20 % 23# r "A" 1300' Fi with respect z "C" + 6% ge + 2% Cacl2 z "A" + 6% ge	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt	1400 * 1350 *	k	Surface	ТОР
12 1/4" 8 3/4" Directional w * Lead in w/120 Tail in w/200 ** Lead in w/100	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po 0 sxs Class "C"	32.3 % 36# 20 % 23# r "A" 1300' Fi with respect z "C" + 6% ge + 2% Cacl2 z "A" + 6% ge	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt	1400 * 1350 *	k	Surface	ТОР
12 1/4" 8 3/4" Directional w * Lead in w/120 Tail in w/200 ** Lead in w/100	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po 0 sxs Class "C"	32.3 % 36# 20 % 23# r "A" 1300' Fi with respect z "C" + 6% ge + 2% Cacl2 z "A" + 6% ge	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt	1400 * 1350 *	k	Surface	TOP
12 1/4" 8 3/4" Directional w * Lead in w/120 Tail in w/200 ** Lead in w/100 Tail in w/350	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po 0 sxs Class "C" 00 sxs 50-50 Po 0 sxs Densified	32.3 % 36# 20 % 23# r "A" 1300' Fi with respect x "C" + 6% ge + 2% Cacl2 z "A" + 6% ge	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt	1400 * 1350 *	k	Surface	TOP
12 1/4" 8 3/4" Directional w * Lead in w/120 Tail in w/200 ** Lead in w/100 Tail in w/350	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po 0 sxs Class "C"	32.3 % 36# 20 % 23# r "A" 1300' Fi with respect x "C" + 6% ge + 2% Cacl2 z "A" + 6% ge	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt	1400 * 1350 *	k	Surface	TOP
12 1/4" 8 3/4" Directional w * Lead in w/120 Tail in w/200 ** Lead in w/100 Tail in w/350	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po 0 sxs Class "C" 00 sxs 50-50 Po 0 sxs Densified	32.3 % 36# 20 % 23# r "A" 1300' Fi with respect x "C" + 6% ge + 2% Cacl2 z "A" + 6% ge	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt	1400 * 1350 *	k	Surface	TOP
Directional w * Lead in w/120 Tail in w/200 ** Lead in w/100 Tail in w/350 BOP Program:	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po 0 sxs Class "C" 00 sxs Densified 3000# Ram Prev	32.3 % 36# 20 % 23# r "A" 1300' Fi with respect x "C" + 6% ge + 2% Cacl2 z "A" + 6% ge Class "C" enter	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt + 3% salt	1400 * 1350 * 1400 * 14	3S-38E	Surface Surface	
Directional w * Lead in w/120 Tail in w/200 ** Lead in w/100 Tail in w/350 BOP Program:	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po 0 sxs Class "C" 00 sxs Densified 3000# Ram Prev	32.3 % 36# 20 % 23# r "A" 1300' Fi with respect x "C" + 6% ge + 2% Cacl2 z "A" + 6% ge Class "C" enter	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt	1400 * 1350 * 1400 * 14	3S-38E	Surface Surface	
Directional w * Lead in w/120 Tail in w/200 ** Lead in w/100 Tail in w/350 BOP Program:	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po 0 sxs Class "C" 00 sxs Densified 3000# Ram Prev	32.3 % 36# 20 % 23# r "A" 1300' Fi with respect x "C" + 6% ge + 2% Cacl2 z "A" + 6% ge Class "C" enter	± 1625' ± 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt OR PLUG BACK, GIVE DATA OF	1400 * 1350 * 1400 * 14	3S-38E	Surface Surface	
Directional w * Lead in w/120 Tail in w/200 ** Lead in w/100 Tail in w/350 BOP Program:	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po 0 sxs Class "C" 00 sxs Densified 3000# Ram Prev	32.3 & 36# 20 & 23# r "A" 1300' Fi with respect x "C" + 6% ge + 2% Cacl2 z "A" + 6% ge Class "C" enter	# 1625' # 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt OR PLUG BACK, GIVE DATA OF knowledge and belief.	1400 * 1350 * 1400 * 14	3S-38E	Surface Surface	
Directional w * Lead in w/120 Tail in w/200 ** Lead in w/100 Tail in w/350 BOP Program:	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po 0 sxs Class "C" 00 sxs Densified 3000# Ram Prev	32.3 % 36# 20 % 23# r "A" 1300' Fi with respect x "C" + 6% ge + 2% Cacl2 z "A" + 6% ge Class "C" enter	# 1625' # 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt OR PLUG BACK, GIVE DATA OF knowledge and belief.	1400 * 1350 * ec. 33-18	BS-38E	Surface Surface	
Directional w * Lead in w/120 Tail in w/200 ** Lead in w/100 Tail in w/350 BOP Program: IN ABOVE SPACE DESCRIBE PRIVE ZONE, GIVE BLOWOUT PREVENT I hereby certify that the information Signed A. J. C.	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po 0 sxs Class "C" 00 sxs 50-50 Po 0 sxs Densified 3000# Ram Prev	32.3 & 36# 20 & 23# r "A" 1300' Fi with respect x "C" + 6% ge + 2% Cacl2 z "A" + 6% ge Class "C" enter	# 1625' # 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt OR PLUG BACK, GIVE DATA OF knowledge and belief.	1400 * 1350 * ec. 33-18	BS-38E	Surface Surface	
Directional w * Lead in w/120 Tail in w/200 ** Lead in w/100 Tail in w/350 BOP Program:	9 5/8" 7" ell: Unit Lette Unothordox 00 sxs 50-50 Po 0 sxs Class "C" 00 sxs 50-50 Po 0 sxs Densified 3000# Ram Prev	32.3 & 36# 20 & 23# r "A" 1300' Fi with respect x "C" + 6% ge + 2% Cacl2 z "A" + 6% ge Class "C" enter	# 1625' # 4400' NL & 750' FEL, Se to 1/4 1/4 Sec. + 3% salt OR PLUG BACK, GIVE DATA OF knowledge and belief.	1400 * 1350 * ec. 33-18	BS-38E	Surface Surface	

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

All distances must be from the outer boundaries of the Section

		All distances must b			the section.	·		
Operator Shell	Western E &	P Inc	Lease Nor	North Hobbs Unit SECTION 33 Well No. 412				
Unit Letter H	Section 33	Township 18 South	Range 38	East	County	Lea	· .	
Actual Footage Location of Well:								
1973 feet from the north line and 530 feet from the east line Ground Level Elev. Producing Formation Pool Dedicated Acreage.								
3635.8	1	San Andres	1	bbs GB/SA		Dedico	40 Acres	
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.								
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).								
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling.etc?								
Yes No If answer is "yes;" type of consolidation Unitization								
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of								
this form if necessary.)								
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.								
	1		1			CERT	IFICATION	
1	1		1		İ			
	PRI	FESSION TO	ŧ		{		hat the information con-	
·	A CONTRACTOR	NO SUPPLY	1	. <u>.</u>	,	best of my knowle	rue and complete to the	
	AMO	10 年間		Bottom Hole			eu	
		676_	- 	Location		A. J. Fore		
		MEXICA	1	411	33-412	Position		
				0		Supv. Reg.	& Permits	
		* * * * * * * * * * * * * * * * * * *	İ	#33-421 6 3.7	530	Shell Weste	rn E&P Inc.	
	i			` #	433-422	April 20, 1	987	
NOTE:	THIS LOCATION	IS TO BE DIRECT	TIONALLY					
		OM HOLE LOCATION		•		I heroby certify	that the well location	
	FROM THE EAST	NORTH LINE AND	/30 FEET	•		· ·	t was plotted from field	
			İ		[surveys made by me or sion, and that the same	
	1		1				ect to the best of my	
	 			·		knowledge and be	lief.	
	1.		.					
	. 1		1		·	Date Surveyed December	13 1086	
	 		1	-		Registered Professi		
	1		i			and/or Land Survey	or / / /	
			<u> </u>			XIm	Whit	
						Certificate No. JOH	IN W. WEST, 676	