

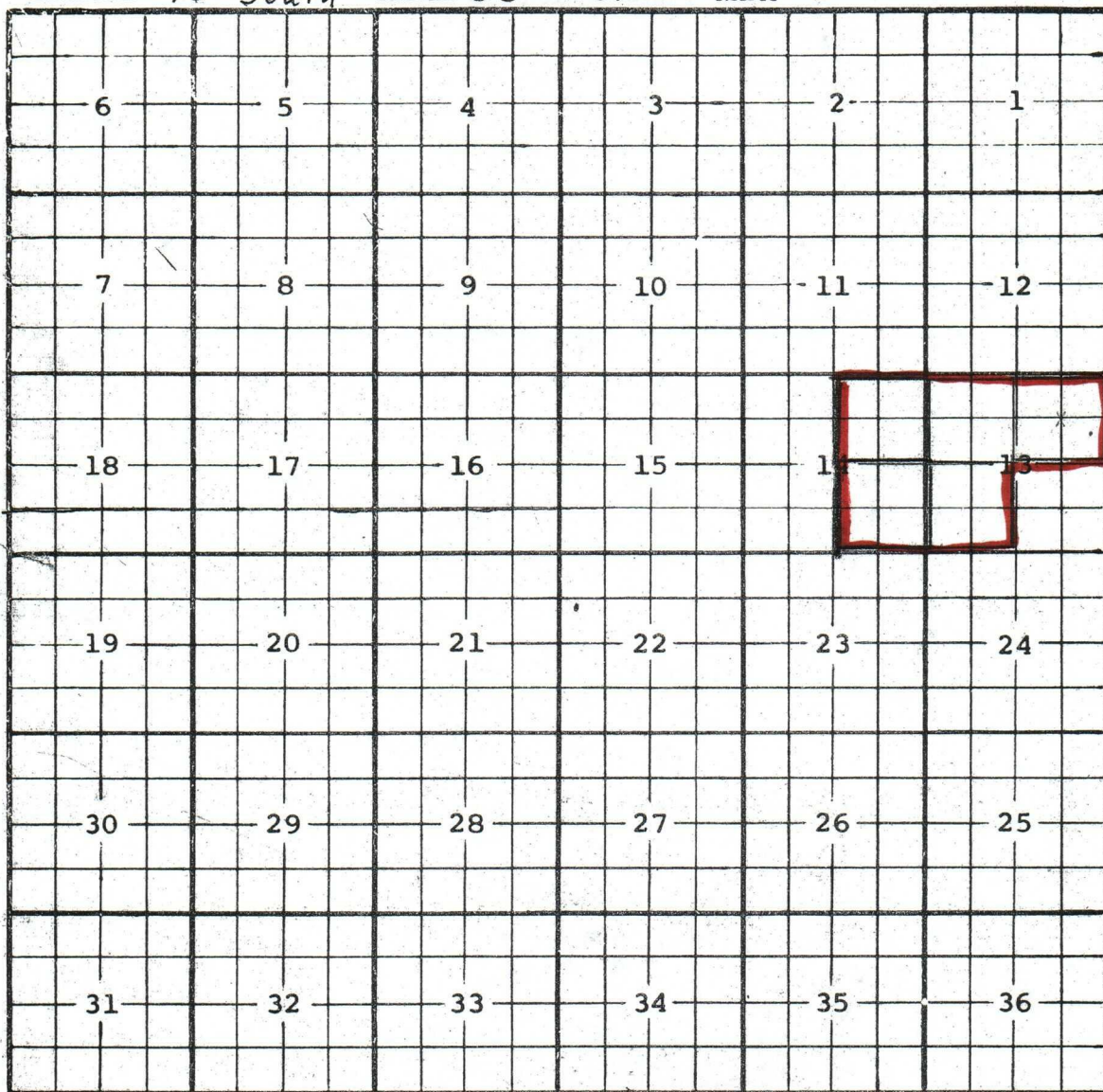
COUNTY Lea

POOL North Shoe Bar - Strawn

TOWNSHIP 16 South

RANGE 35 East

NMPM



Description: NW¹/₄ Sec 13 (R-4658, 11-16-73)

Ext: NE¹/₄ Sec 13 (R-4734, 3-1-74) Ext: SW¹/₄ Sec 13 (R-4861, 11-1-74)

Ext: NE¹/₄ Sec. 14 (R-11533, 2-8-81) Ext: SE¹/₄ Sec. 14 (R-11728, 2-20-04)

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. 5082
Order No. R-4658

APPLICATION OF MESA PETROLEUM
COMPANY FOR A DUAL COMPLETION,
CREATION OF A NEW OIL POOL,
ASSIGNMENT OF A DISCOVERY ALLOWABLE,
AND SPECIAL POOL RULES, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on October 17, 1973, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 16th day of November, 1973, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, 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, Mesa Petroleum Company is the owner and operator of the Hillburn Well No. 1, located in Unit E of Section 13, Township 16 South, Range 35 East, NMPM, Lea County, New Mexico.

(3) That said well has discovered a new and separate common source of supply in the Strawn formation, and a new pool designated the North Shoe Bar-Strawn Pool should be created and defined by the Commission.

(4) That applicants well, said Hillburn Well No. 1, has made a bona fide discovery of a new common source of supply, and should be assigned an oil discovery allowable pursuant to the provisions of Rule 509 of the Commission Rules and Regulations.

(5) That the top of the perforations in the subject well is at 11,289 feet in the Strawn formation; and that 56,445 barrels of oil discovery allowable should be assigned to the subject well.

(6) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise

prevent waste and protect correlative rights, temporary special rules and regulations providing for 160-acre spacing units should be promulgated for the North Shoe Bar-Strawn Pool.

(7) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.

(8) That the temporary special rules and regulations should be established for a one-year period in order to allow the operators in the subject pool to gather reservoir information to establish the area that can be efficiently and economically drained and developed by one well.

(9) That the vertical limits of the North Shoe Bar-Strawn Pool should be the Strawn formation as found from 11,275 feet to 11,360 feet on the log of the discovery well, the aforesaid Hillburn Well No. 1; that the horizontal limits of said pool should be the NW/4 of Section 13, Township 16 South, Range 35, East, NMPM, Lea County, New Mexico.

(10) That this case should be reopened at an examiner hearing in November, 1974, at which time the operators in the subject pool should be prepared to appear and show cause why the North Shoe Bar-Strawn Pool should not be developed on less than 160-acre spacing units.

(11) That applicant's request that the dual completion portion of its application be dismissed should be approved.

IT IS THEREFORE ORDERED:

(1) That the dual completion portion of the subject application is hereby dismissed.

(2) That a new pool for Strawn oil production be and the same is hereby created and designated the North Shoe Bar-Strawn with vertical limits defined as being the Strawn formation as found from 11,275 feet to 11,360 feet on the log of the discovery well, the Mesa Petroleum Company Hillburn Well No. 1, located in Unit E of Section 13, Township 16 South, Range 35 East, NMPM, Lea County, New Mexico, and with horizontal limits defined as being the NW/4 of said Section 13.

(3) That the aforesaid Hillborn Well No. 1 is hereby assigned an oil discovery allowable in the amount of 56,445 barrels, to be produced at a rate not to exceed 78 barrels per day.

(4) That effective November 10, 1973, Special Rules and Regulations for the North Shoe Bar-Strawn Pool, Lea County, New Mexico, are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS
FOR THE
NORTH SHOE BAR-STRAWN POOL

RULE 1. Each well completed or recompleted in the North Shoe Bar-Strawn Pool or in the Strawn formation within one mile thereof, and not nearer to or within the limits of another designated Strawn oil pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. Each well shall be located on a standard unit containing 160 acres, more or less, substantially in the form of a square, which is a quarter section being a legal subdivision of the United States Public Land Surveys.

RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit consisting of less than 160 acres or the unorthodox size or shape of the tract is due to a variation in the legal subdivision of the United States Public Land Surveys. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the formation of the non-standard unit within 30 days after the Secretary-Director has received the application.

RULE 4. Each well shall be located within 150 feet of the center of a governmental quarter-quarter section or lot.

RULE 5. The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proposed location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all operators offsetting the proposed location or if no objection to the unorthodox location has been entered within 20 days after the Secretary-Director has received the application.

RULE 6. A standard proration unit (158 through 162 acres) shall be assigned a depth bracket allowable of 605 barrels, subject to the market demand percentage factor, and in the event there is more than one well on a 160-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 160 acres.

IT IS FURTHER ORDERED:

(1) That the locations of all wells presently drilling to or completed in the North Shoe Bar-Strawn Pool or in the Strawn formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs district office of the Commission in writing of the name and location of the well on or before November 30, 1973.

(2) That, pursuant to Paragraph A. of Section 65-3-14.5, NMSA 1953, contained in Chapter 271, Laws of 1969, existing wells in the North Shoe Bar-Strawn Pool shall have dedicated thereto 160 acres in accordance with the foregoing pool rules; or, pursuant to Paragraph C. of said Section 65-3-14.5, existing wells may have non-standard spacing or proration units established by the Commission and dedicated thereto.

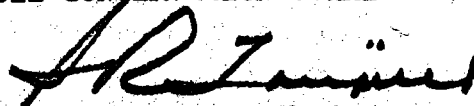
Failure to file new Forms C-102 with the Commission dedicating 160 acres to a well or to obtain a non-standard unit approved by the Commission within 60 days from the date of this order shall subject the well to cancellation of allowable.

(3) That this case shall be reopened at an examiner hearing in November, 1974, at which time the operators in the subject pool may appear and show cause why the North Shoe Bar-Strawn Pool should not be developed on less than 160-acre spacing units.

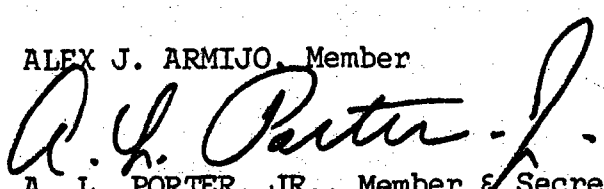
(4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


I. R. TRUJILLO, Chairman

ALEX J. ARMIJO, Member


A. L. PORTER, JR., Member & Secretary

SEAL

jr/

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. 5130
Order No. R-4658-A

APPLICATION OF MESA PETROLEUM
COMPANY FOR AN AMENDMENT TO
THE TEMPORARY SPECIAL POOL
RULES, NORTH SHOE BAR-STRAWN
POOL, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 13, 1974 at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 21st day of February, 1974, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, 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, Mesa Petroleum Company, seeks the amendment of the temporary special pool rules, North Shoe Bar-Strawn Pool, Lea County, New Mexico, to provide for a limiting gas-oil ratio of 4,000 cubic feet of gas per barrel of oil produce

(3) That the applicant has completed two wells in the subject pool.

(4) That neither well has been produced, except for testing, pending the completion of casinghead gas gathering facilities to serve the wells.

(5) That the test information available indicates that wells completed in said pool will produce with gas-oil ratios in excess of 2000 to 1.

(6) That the evidence currently available indicates that wells in said pool may be produced without waste under a limiting gas oil ratio of 4000 to 1.

(7) That the applicant has made no determination of ultimate recovery of hydrocarbons from the subject pool to the economic limit at limiting gas-oil ratios of 2000 to 1 and 4000 to 1 or under conditions of gas reinjection or pressure maintenance.

(8) That such estimates of recovery should be made and presented at an examiner hearing in November, 1974, at which time the operators in the North Shoe Bar-Strawn Pool are to appear and show cause why said pool should not be developed and produced in accordance with statewide oil well spacing and production rules.

(9) That applicant's request for an amendment to the temporary special pool rules for the North Shoe Bar-Strawn Pool to provide for a limiting gas-oil ratio of 4000 to 1 should be approved.

IT IS THEREFORE ORDERED:

(1) That the Order R-4658 is hereby amended by the addition of Rule No. 7 to the special pool rules of the North Shoe Bar-Strawn Pool as set out below:

SPECIAL RULES AND REGULATIONS
FOR THE
NORTH SHOE BAR-STRAWN POOL

RULE 7. A limiting gas-oil ratio of 4000 cubic feet of gas per barrel of oil produced is hereby established for the pool.

IT IS FURTHER ORDERED:

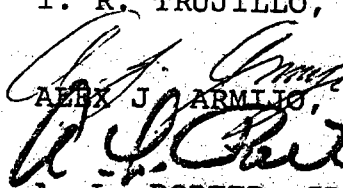
(1) The applicant shall prepare estimates of recovery from the North Shoe Bar-Strawn Pool under the gas-oil ratios and conditions set out in Finding (7) of this order for presentation at the examiner hearing to be held in November, 1974, as required by Commission Order No. R-4658.

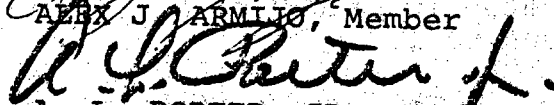
(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

I. R. TRUJILLO, Chairman


ALEX J. ARMILLO, Member


A. L. PORTER, JR., Member & Secretary

S E A L

jr/

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. 5082 (Reopened)
Order No. R-4658-B

IN THE MATTER OF CASE NO. 5082 BEING
REOPENED PURSUANT TO THE PROVISIONS OF
ORDER NO. R-4658, WHICH ORDER ESTABLISHED
TEMPORARY SPECIAL RULES FOR THE NORTH SHOE
BAR-STRAWN POOL, LEA COUNTY, NEW MEXICO,
INCLUDING A PROVISION FOR 160-ACRE SPACING
AND PRORATION UNITS.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on November 26, 1974, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 3rd day of December, 1974, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, 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 by Order No. R-4658, dated November 16, 1973, temporary special rules and regulations were promulgated for the North Shoe Bar-Strawn Pool, Lea County, New Mexico, establishing temporary 160-acre spacing and proration units.
- (3) That pursuant to the provisions of Orders Nos. R-4658 and R-4658-A this case was reopened to allow the operators in the subject pool to appear and show cause why the North Shoe Bar-Strawn Pool should not be developed on less than 160-acre spacing units and why the gas-oil ratio limitation should not be 2000 cubic feet of gas per barrel of oil produced.
- (4) That the evidence establishes that one well in the North Shoe Bar-Strawn Pool can efficiently and economically drain and develop 160 acres.
- (5) That the evidence establishes that the reservoir is being efficiently produced with a gas-oil ratio of 4000 cubic feet of gas per barrel.

Case No. 5082 (Reopened)
Order No. R-4658-B

(6) That the Special Rules and Regulations promulgated by Order No. R-4658, as amended by Order No. R-4658-A, have afforded and will afford to the owner of each property in the pool the opportunity to produce his just and equitable share of the gas in the pool.

(7) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, the Special Rules and Regulations promulgated by Order No. R-4658, as amended, should be continued in full force and effect until further order of the Commission.

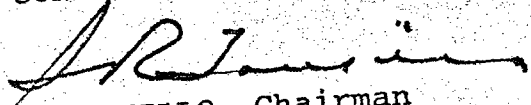
IT IS THEREFORE ORDERED:

(1) That the Special Rules and Regulations governing the North Shoe Bar-Strawn Pool, Lea County, New Mexico, promulgated by Order No. R-4658, as amended by Order No. R-4658-A, are hereby continued in full force and effect until further order of the Commission.

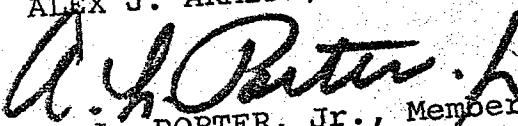
(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


I. R. TRUJILLO, Chairman

ALEX J. ARMIJO, Member


A. L. PORTER, Jr., Member & Secretary

S E A L

dr/

CMD : ONGARD 10/05/04 15:36:57
OG6IWCM INQUIRE WELL COMPLETIONS OGOMES -TPQE

API Well No : 30 25 24473 Eff Date : 03-01-2004 WC Status : A
Pool Idn : 56270 SHOE BAR;STRAWN, NORTH
OGRID Idn : 147179 CHESAPEAKE OPERATING, INC.
Prop Idn : 33688 HILBURN

Well No : 001
GL Elevation: 99999

U/L Sec Township Range North/South East/West Prop/Act (P/A)

B.H. Locn : E 13 16S 35E FTG 1980 F N FTG 660 F W A
Lot Identifier:
Dedicated Acre: 160.00
Lease Type : P
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

M0025: Enter PF keys to scroll
PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06
PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

CMD :
OG6ACRE
ONGARD
C102-DEDICATE ACREAGE

10/05/04 15:37:17
OGOMES -TPQE
Page No : 1

API Well No : 30 25 24473 Eff Date : 04-30-1991
Pool Idn : 56270 SHOE BAR,STRAWN, NORTH
Prop Idn : 33688 HILBURN
Spacing Unit : 13893 OCD Order :
Sect/Twp/Rng : 13 16S 35E Acreage : 160.00 Well No : 001
Dedicated Land: Simultaneous Dedication:
Revised C102? (Y/N) :

S	Base U/L	Sec	Twp	Rng	Acreage	L/W	Ownership	Lot	Idn
C	13	16S	35E	40.00	N	FE			
D	13	16S	35E	40.00	N	FE			
E	13	16S	35E	40.00	N	FE			
F	13	16S	35E	40.00	N	FE			

E0005: Enter data to modify or PF keys to scroll
PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05
PF07 BKWD PF08 FWD PF09 PF10 LAND PF11 NXTSEC PF12 RECONF

CMD :
OG6IPRD INQUIRE PRODUCTION BY POOL/WELL

10/05/04 15:37:25
OGOMES -TPQE
Page No: 1

OGRID Identifier : 25797 PERMIAN RESOURCES INC
Pool Identifier : 56270 SHOE BAR;STRAWN, NORTH
API Well No : 30 25 24473 Report Period - From : 01 2004 To : 08 2004

API Well No	Property Name	Prodn. Days		Production Volumes			Well
		MM/YY	Prod	Gas	Oil	Water Stat	
30 25 24473	HILBURN	01 04	31	593	48	23	P
30 25 24473	HILBURN	02 04	29	572	92	31	P
30 25 24473	HILBURN	03 04	31	736	107	32	P

Reporting Period Total (Gas, Oil) : 1901 247 86

M0025: Enter PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM
PF07 BKWD PF08 FWD PF09 PF10 NXTPool PF11 NXTOGD PF12

CMD : ONGARD 10/05/04 15:37:05
OG6IWCN INQUIRE WELL COMPLETIONS OGOMES -TPQE

API Well No : 30 25 24473 Eff Date : 03-01-2004 WC Status : A
Pool Idn : 56295 SHOE BAR,WOLFCAMP, NORTH
OGRID Idn : 147179 CHESAPEAKE OPERATING, INC.
Prop Idn : 33688 HILBURN

Well No : 001
GL Elevation: 99999

U/L Sec Township Range North/South East/West Prop/Act (P/A)

B.H. Locn : E 13 16S 35E FTG 1980 F N FTG 660 F W A
Lot Identifier:
Dedicated Acre: 160.00
Lease Type : P
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06
PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

[HOME](#) | [PETROLEUM DATA](#) | [NEWS](#) | [MARKETPLACE](#) | [SOFTWARE](#) | [SPONSORS](#) | [LINKS](#) | [CONTACT](#)

[PTTC](#)
[PRRC](#)
[NM-TECH](#)
[NMBGMR](#)



[NYMEX LS Crude](#) \$49.91
[Navajo WTXI](#) \$46.75
[Henry Hub](#) \$6.73

Updated 10/5/2004

[GENERAL](#) | [COUNTY](#) | [OPERATOR](#) | [POOL](#) | [LOCATION](#) | [OCD LOG & WELL FILES](#)

View Production Data

In Internet Explorer, right click and select "Save Target As..."
In Netscape, right click and select "Save Link As..."

Download: [HTTP](#)

Well: HILBURN **No.:** 001
Operator: CHESAPEAKE OPERATING, INC. [[NM SLO data](#)]
API: 3002524473 **Township:** 16.0S **Range:** 35E
Section: 13 **Unit:** E
Land Type: P **County:** Lea
Pools associated:

- [SHOE BAR;STRAWN, NORTH](#) **Total Acreage:** 160 **Completion:** 1
- [SHOE BAR;WOLFCAMP, NORTH](#) **Total Acreage:** 160 **Completion:** 1
- [Show All](#)

Year: 1973
Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	0	0
April	0	0	0	0	0	0
May	0	0	0	0	0	0
June	0	0	0	0	0	0
July	0	0	0	0	0	0
August	0	0	0	0	0	0
September	930	0	0	3	930	0
October	2976	0	0	9	3906	0
November	73	0	0	2	3979	0

December	0	0	0	0	3979	0
Total	3979	0	0	14		

Year: 1975

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	9142	12573	0	29	13121	12573
February	8681	10982	0	27	21802	23555
March	6584	5069	0	31	28386	28624
April	4686	9299	0	30	33072	37923
May	4124	8152	0	31	37196	46075
June	4998	9774	0	30	42194	55849
July	4148	9369	0	26	46342	65218
August	3830	7458	0	28	50172	72676
September	403	4089	0	9	50575	76765
October	4022	7600	0	31	54597	84365
November	3803	7585	0	30	58400	91950
December	3947	6779	0	31	62347	98729
Total	58368	98729	0	333		

Year: 1976

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	3939	5556	0	31	66286	104285
February	3458	7001	0	29	69744	111286
March	4027	7934	0	31	73771	119220
April	3841	7863	0	30	77612	127083
May	3522	7578	0	30	81134	134661
June	3794	6668	0	30	84928	141329
July	3499	6415	0	31	88427	147744
August	3292	6115	0	31	91719	153859
September	3154	5416	0	30	94873	159275
October	3314	5547	0	29	98187	164822
November	2839	5233	0	21	101026	170055
December	3568	5676	0	31	104594	175731
Total	42247	77002	0	354		

Year: 1977

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January						

	3071	5283	0	30	107665	181014
February	2957	4271	0	28	110622	185285
March	2970	4904	0	31	113592	190189
April	2998	5601	0	27	116590	195790
May	2705	5306	0	30	119295	201096
June	2772	5012	0	30	122067	206108
July	2609	4680	0	31	124676	210788
August	2582	4381	89	31	127258	215169
September	2348	3778	171	29	129606	218947
October	2761	4088	618	31	132367	223035
November	1796	3725	199	19	134163	226760
December	2832	4304	389	31	136995	231064
Total	32401	55333	1466	348		

Year: 1979

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	1971	3458	61	22	138966	234522
February	2027	3598	226	28	140993	238120
March	1998	3926	356	31	142991	242046
April	1853	3911	300	27	144844	245957
May	2022	4155	354	30	146866	250112
June	1930	4131	387	30	148796	254243
July	1956	4017	265	27	150752	258260
August	1820	3518	249	30	152572	261778
September	1638	3758	194	27	154210	265536
October	1832	4083	194	31	156042	269619
November	1748	3760	594	30	157790	273379
December	1750	4029	313	31	159540	277408
Total	22545	46344	3493	344		

Year: 1980

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	1763	4156	516	31	161303	281564
February	1671	3635	577	28	162974	285199
March	1728	4193	595	30	164702	289392
April	1400	3117	563	23	166102	292509
May	1256	2972	421	31	167358	295481
June	1543	4560	435	30	168901	300041

July	1539	4587	535	31	170440	304628
August	1762	4482	560	31	172202	309110
September	1421	3985	747	30	173623	313095
October	1426	4124	895	31	175049	317219
November	389	2362	420	5	175438	319581
December	1717	3909	440	31	177155	323490
Total	17615	46082	6704	332		

Year: 1981

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	1910	97	930	0	179065	323587
February	1400	3667	630	24	180465	327254
March	1470	3703	930	22	181935	330957
April	1888	4600	770	30	183823	335557
May	1843	4385	840	31	185666	339942
June	1060	3652	410	30	186726	343594
July	1746	4518	930	31	188472	348112
August	1095	3390	910	31	189567	351502
September	1562	4146	1010	30	191129	355648
October	1496	4044	1100	30	192625	359692
November	1374	3725	840	30	193999	363417
December	1554	480	665	31	195553	363897
Total	18398	40407	9965	320		

Year: 1982

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	1290	442	210	31	196843	364339
February	1184	442	175	27	198027	364781
March	1522	3955	210	31	199549	368736
April	1340	3813	50	30	200889	372549
May	1621	3887	60	31	202510	376436
June	1343	3575	50	27	203853	380011
July	1224	3761	62	31	205077	383772
August	1219	3146	89	31	206296	386918
September	1305	3226	225	30	207601	390144
October	1482	2922	464	31	209083	393066
November	1364	2852	472	30	210447	395918
December	1105	3054	225	23	211552	398972

Total 15999 35075 2292 353

Year: 1983

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	1503	4035	349	31	213055	403007
February	1288	3292	414	28	214343	406299
March	1240	3568	283	31	215583	409867
April	1110	3950	219	30	216693	413817
May	1128	3681	131	31	217821	417498
June	1135	3929	158	30	218956	421427
July	1430	3989	615	31	220386	425416
August	1064	3949	633	31	221450	429365
September	1115	3748	287	30	222565	433113
October	1174	3647	138	31	223739	436760
November	957	3384	171	24	224696	440144
December	1231	3405	286	28	225927	443549
Total	14375	44577	3684	356		

Year: 1984

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	1445	3853	296	31	227372	447402
February	1183	3645	426	29	228555	451047
March	1251	3907	359	31	229806	454954
April	1123	3751	287	30	230929	458705
May	1109	4049	284	31	232038	462754
June	955	4148	237	30	232993	466902
July	830	4093	342	31	233823	470995
August	1110	4055	208	29	234933	475050
September	1074	3664	259	30	236007	478714
October	1100	3943	396	31	237107	482657
November	858	3554	294	29	237965	486211
December	1131	3508	277	29	239096	489719
Total	13169	46170	3665	361		

Year: 1985

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	1039	3789	97	31	240135	493508
February						

	808	3373	297	27	240943	496881
March	1070	3799	330	31	242013	500680
April	1006	3759	377	30	243019	504439
May	1024	4040	344	31	244043	508479
June	899	3893	219	27	244942	512372
July	865	3978	261	31	245807	516350
August	887	3826	121	31	246694	520176
September	863	3486	174	99	247557	523662
October	1092	3358	200	99	248649	527020
November	828	3729	185	99	249477	530749
December	853	3506	82	99	250330	534255
Total	11234	44536	2687	239		

Year: 1986

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	755	3715	112	99	251085	537970
February	771	3292	169	99	251856	541262
March	813	3807	19	99	252669	545069
April	878	3819	189	99	253547	548888
May	810	3489	184	99	254357	552377
June	678	3188	187	99	255035	555565
July	805	4309	176	99	255840	559874
August	653	3929	194	99	256493	563803
September	629	3468	159	99	257122	567271
October	631	2756	177	99	257753	570027
November	733	3420	137	99	258486	573447
December	846	2784	145	99	259332	576231
Total	9002	41976	1848	0		

Year: 1987

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	714	3185	121	0	260046	579416
February	736	2921	135	27	260782	582337
March	691	2908	180	31	261473	585245
April	729	2473	170	30	262202	587718
May	596	3438	159	28	262798	591156
June	579	2967	120	30	263377	594123
July	588	3044	184	30	263965	597167

August	637	2493	195	29	264602	599660
September	987	3340	180	30	265589	603000
October	747	3182	186	31	266336	606182
November	821	2596	180	30	267157	608778
December	753	3909	169	29	267910	612687
Total	8578	36456	1979	325		

Year: 1988

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	593	3056	174	29	268503	615743
February	772	3283	156	27	269275	619026
March	873	3405	270	29	270148	622431
April	606	3330	282	28	270754	625761
May	715	3515	168	28	271469	629276
June	590	3175	192	28	272059	632451
July	624	3335	72	28	272683	635786
August	658	3457	220	29	273341	639243
September	621	3128	237	27	273962	642371
October	610	3177	120	29	274572	645548
November	604	3037	168	28	275176	648585
December	89	3162	24	4	275265	651747
Total	7355	39060	2083	314		

Year: 1989

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	2873	0	31	275265	654620
February	114	2577	36	6	275379	657197
March	406	2961	186	31	275785	660158
April	399	2886	180	30	276184	663044
May	1642	3598	378	31	277826	666642
June	2132	3691	469	30	279958	670333
July	1109	3329	89	31	281067	673662
August	662	3464	99	29	281729	677126
September	713	3251	86	30	282442	680377
October	686	3183	89	31	283128	683560
November	697	3134	91	29	283825	686694
December	680	3162	109	30	284505	689856
Total	9240	38109	1812	339		

Year: 1990

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	645	3159	97	31	285150	693015
February	521	2719	83	26	285671	695734
March	609	3160	91	31	286280	698894
April	606	3014	85	30	286886	701908
May	458	3638	73	30	287344	705546
June	412	3238	74	21	287756	708784
July	663	3242	106	31	288419	712026
August	523	3120	73	31	288942	715146
September	571	2955	91	30	289513	718101
October	569	2978	91	31	290082	721079
November	486	2885	83	30	290568	723964
December	549	2821	258	31	291117	726785
Total	6612	36929	1205	353		

Year: 1991

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	425	2536	200	26	291542	729321
February	55	2535	23	3	291597	731856
March	704	2791	296	31	292301	734647
April	407	2752	191	24	292708	737399
May	0	2837	0	0	292708	740236
June	275	2667	129	30	292983	742903
July	0	2754	0	0	292983	745657
August	0	2866	0	1	292983	748523
September	0	2678	0	0	292983	751201
October	0	2385	0	31	292983	753586
November	0	1147	0	1	292983	754733
December	502	958	592	31	293485	755691
Total	2368	28906	1431	178		

Year: 1992

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	0	0	29	293485	755691
February	0	0	0	29	293485	755691
March	0	0	0	31	293485	755691
April						

	0	0	0	30	293485	755691
May	0	0	0	31	293485	755691
June	0	0	0	30	293485	755691
July	0	0	0	31	293485	755691
August	0	0	0	0	293485	755691
September	0	0	0	0	293485	755691
October	0	0	0	0	293485	755691
November	0	0	0	0	293485	755691
December	0	0	0	31	293485	755691
Total	0	0	0	242		

Pool Name: SHOE BAR;WOLFCAMP, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	465	1501	525	0	293950	757192
February	109	970	27	0	294059	758162
March	160	386	22	0	294219	758548
April	146	298	20	0	294365	758846
May	93	175	31	0	294458	759021
June	87	149	29	0	294545	759170
July	69	119	23	0	294614	759289
August	67	159	22	31	294681	759448
September	64	257	21	30	294745	759705
October	61	226	20	31	294806	759931
November	51	201	0	30	294857	760132
December	31	0	0	31	294888	760132
Total	1403	4441	740	153		

Year: 1993

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	0	0	0	294888	760132
February	784	7308	0	99	295672	767440
March	1182	8737	0	31	296854	776177
April	1098	6747	0	30	297952	782924
May	748	5498	0	31	298700	788422
June	845	759	0	30	299545	789181
July	694	361	0	31	300239	789542
August	623	1101	0	31	300862	790643
September	502	743	0	30	301364	791386
October	736	1005	0	31	302100	792391

November	635	789	0	30	302735	793180
December	600	516	0	31	303335	793696
Total	8447	33564	0	306		

Pool Name: SHOE BAR;WOLFCAMP, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	41	6299	0	31	303376	799995
February	0	185	0	28	303376	800180
March	0	222	0	31	303376	800402
April	0	171	0	30	303376	800573
May	0	140	0	31	303376	800713
June	0	19	0	30	303376	800732
July	0	9	0	31	303376	800741
August	0	28	0	31	303376	800769
September	0	19	0	30	303376	800788
October	0	26	0	31	303376	800814
November	0	20	0	30	303376	800834
December	0	13	0	31	303376	800847
Total	41	7151	0	365		

Year: 1994

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	422	226	0	31	303798	801073
February	305	222	0	28	304103	801295
March	405	192	0	31	304508	801487
April	290	181	0	30	304798	801668
May	375	319	0	31	305173	801987
June	317	382	0	30	305490	802369
July	308	344	0	31	305798	802713
August	328	408	0	31	306126	803121
September	352	246	284	29	306478	803367
October	331	237	192	31	306809	803604
November	370	192	288	30	307179	803796
December	409	386	0	29	307588	804182
Total	4212	3335	764	362		

Pool Name: SHOE BAR;WOLFCAMP, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	119	0	31	307588	804301

February	0	117	0	28	307588	804418
March	0	101	0	31	307588	804519
April	18	6	0	30	307606	804525
May	23	11	0	31	307629	804536
June	20	13	0	30	307649	804549
July	19	11	0	31	307668	804560
August	21	14	0	31	307689	804574
September	22	8	0	30	307711	804582
October	21	8	0	31	307732	804590
November	23	6	0	30	307755	804596
December	28	14	0	31	307783	804610
Total	195	428	0	365		

Year: 1995

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	383	592	0	30	308166	805202
February	294	486	81	28	308460	805688
March	416	525	24	31	308876	806213
April	350	591	40	20	309226	806804
May	380	666	72	22	309606	807470
June	343	612	103	20	309949	808082
July	369	550	110	18	310318	808632
August	328	617	102	18	310646	809249
September	294	369	67	16	310940	809618
October	362	708	82	17	311302	810326
November	208	684	66	18	311510	811010
December	203	709	62	16	311713	811719
Total	3930	7109	809	254		

Pool Name: SHOE BAR;WOLFCAMP, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	25	20	0	31	311738	811739
February	18	16	3	28	311756	811755
March	26	17	1	31	311782	811772
April	32	30	3	30	311814	811802
May	34	31	4	31	311848	811833
June	32	31	6	30	311880	811864
July	39	32	8	31	311919	811896
August	36	35	7	31	311955	811931

September	35	24	5	30	311990	811955
October	42	43	6	31	312032	811998
November	22	38	5	30	312054	812036
December	24	46	5	31	312078	812082
Total	365	363	53	365		

Year: 1996

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	217	688	65	19	312295	812770
February	87	1700	94	27	312382	814470
March	88	1779	75	31	312470	816249
April	91	1873	337	30	312561	818122
May	102	1909	147	31	312663	820031
June	73	1203	125	15	312736	821234
July	82	2205	113	31	312818	823439
August	109	2129	155	31	312927	825568
September	131	2013	0	30	313058	827581
October	110	1993	0	31	313168	829574
November	86	1854	165	30	313254	831428
December	87	1920	246	31	313341	833348
Total	1263	21266	1522	337		

Pool Name: SHOE BAR;WOLFCAMP, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	22	37	4	31	313363	833385
February	4	37	4	29	313367	833422
March	3	36	3	31	313370	833458
April	4	38	14	30	313374	833496
May	4	39	6	31	313378	833535
June	6	49	10	30	313384	833584
July	4	45	5	31	313388	833629
August	4	43	6	31	313392	833672
September	6	41	0	30	313398	833713
October	4	41	0	31	313402	833754
November	4	38	7	30	313406	833792
December	4	39	10	31	313410	833831
Total	69	483	69	366		

Year: 1997

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	113	1691	202	0	313523	835522
February	107	1499	161	28	313630	837021
March	115	1751	156	31	313745	838772
April	117	1717	151	30	313862	840489
May	129	1791	137	31	313991	842280
June	105	1742	162	30	314096	844022
July	133	1811	227	31	314229	845833
August	86	1795	75	31	314315	847628
September	113	0	245	30	314428	847628
October	157	0	264	31	314585	847628
November	163	1573	102	30	314748	849201
December	131	0	106	31	314879	849201
Total	1469	15370	1988	334		

Pool Name: SHOE BAR;WOLFCAMP, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	5	35	8	31	314884	849236
February	4	31	7	28	314888	849267
March	5	36	7	31	314893	849303
April	5	35	6	30	314898	849338
May	5	37	6	31	314903	849375
June	5	36	7	30	314908	849411
July	5	37	15	31	314913	849448
August	3	37	3	31	314916	849485
September	5	0	16	30	314921	849485
October	6	0	18	31	314927	849485
November	7	32	4	30	314934	849517
December	137	0	88	31	315071	849517
Total	192	316	185	365		

Year: 1998

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	128	1069	83	31	315199	850586
February	155	1387	195	26	315354	851973
March	148	1027	72	31	315502	853000
April	180	1665	0	30	315682	854665
May	150	1180	96	31	315832	855845
June	165	1102	135	30	315997	856947

July	154	1020	181	31	316151	857967
August	157	1015	136	31	316308	858982
September	147	1717	121	30	316455	860699
October	0	0	0	0	316455	860699
November	0	0	0	0	316455	860699
December	184	1438	109	31	316639	862137
Total	1568	12620	1128	302		

Pool Name: SHOE BAR;WOLFCAMP, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	160	1091	69	31	316799	863228
February	6	28	13	26	316805	863256
March	180	1168	54	31	316985	864424
April	8	34	0	30	316993	864458
May	151	1165	69	30	317144	865623
June	148	1124	101	30	317292	866747
July	114	995	135	31	317406	867742
August	140	990	61	31	317546	868732
September	6	35	54	30	317552	868767
October	8	79	0	31	317560	868846
November	8	69	2	30	317568	868915
December	8	29	48	31	317576	868944
Total	937	6807	606	362		

Year: 1999

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	183	1433	57	0	317759	870377
February	134	1387	52	28	317893	871764
March	166	1551	106	31	318059	873315
April	153	1570	111	30	318212	874885
May	119	1679	143	31	318331	876564
June	107	1404	103	20	318438	877968
July	178	1958	146	31	318616	879926
August	139	1760	144	31	318755	881686
September	139	1666	146	30	318894	883352
October	142	1615	146	31	319036	884967
November	147	889	142	30	319183	885856
December	151	1565	0	31	319334	887421
Total	1758	18477	1296	324		

Pool Name: SHOE BAR;WOLFCAMP, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	8	29	2	0	319342	887450
February	5	28	2	28	319347	887478
March	7	32	47	31	319354	887510
April	7	32	50	30	319361	887542
May	5	34	64	31	319366	887576
June	7	43	69	30	319373	887619
July	7	40	65	31	319380	887659
August	5	36	64	31	319385	887695
September	6	34	65	30	319391	887729
October	6	33	65	31	319397	887762
November	6	18	63	30	319403	887780
December	6	32	0	31	319409	887812
Total	75	391	556	334		

Year: 2000

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	161	1824	157	31	319570	889636
February	139	1471	253	29	319709	891107
March	142	1568	142	30	319851	892675
April	115	1541	136	30	319966	894216
May	158	0	145	31	320124	894216
June	139	796	61	30	320263	895012
July	150	827	63	31	320413	895839
August	146	826	63	31	320559	896665
September	126	797	61	30	320685	897462
October	136	610	57	31	320821	898072
November	128	617	59	30	320949	898689
December	131	656	62	31	321080	899345
Total	1671	11533	1259	365		

Pool Name: SHOE BAR;WOLFCAMP, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	7	37	70	31	321087	899382
February	6	30	113	29	321093	899412
March	6	33	65	31	321099	899445
April	5	31	61	30	321104	899476
May	7	0	65	31	321111	899476

June	6	36	3	30	321117	899512
July	6	36	3	31	321123	899548
August	7	36	3	31	321130	899584
September	6	36	3	30	321136	899620
October	6	27	3	31	321142	899647
November	5	28	3	30	321147	899675
December	6	29	3	31	321153	899704
Total	73	359	395	366		

Year: 2001

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	141	741	63	31	321294	900445
February	128	598	57	28	321422	901043
March	134	730	56	31	321556	901773
April	137	656	52	30	321693	902429
May	137	756	63	31	321830	903185
June	105	458	61	30	321935	903643
July	136	861	63	31	322071	904504
August	121	773	63	31	322192	905277
September	96	682	55	30	322288	905959
October	92	563	65	31	322380	906522
November	99	599	78	28	322479	907121
December	74	535	57	31	322553	907656
Total	1400	7952	733	363		

Pool Name: SHOE BAR;WOLFCAMP, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	6	33	3	31	322559	907689
February	6	26	3	28	322565	907715
March	6	33	2	31	322571	907748
April	6	29	2	30	322577	907777
May	7	34	3	31	322584	907811
June	4	20	3	30	322588	907831
July	6	39	3	31	322594	907870
August	5	34	3	31	322599	907904
September	5	31	2	30	322604	907935
October	3	25	3	31	322607	907960
November	4	27	3	28	322611	907987
December	4	23	3	31	322615	908010

Total 62 354 33 363

Year: 2002

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	66	666	52	30	322681	908676
February	81	753	110	28	322762	909429
March	83	648	56	31	322845	910077
April	72	822	231	30	322917	910899
May	88	1040	47	31	323005	911939
June	63	697	49	30	323068	912636
July	97	674	135	31	323165	913310
August	86	601	63	31	323251	913911
September	58	601	56	30	323309	914512
October	89	528	64	31	323398	915040
November	111	535	61	30	323509	915575
December	124	555	63	31	323633	916130
Total	1018	8120	987	364		

Pool Name: SHOE BAR;WOLFCAMP, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	3	29	2	30	323636	916159
February	3	33	5	28	323639	916192
March	4	29	2	31	323643	916221
April	3	36	10	30	323646	916257
May	3	46	2	31	323649	916303
June	4	31	2	30	323653	916334
July	4	30	6	31	323657	916364
August	4	27	3	31	323661	916391
September	2	27	2	30	323663	916418
October	4	24	3	31	323667	916442
November	5	24	3	30	323672	916466
December	5	25	3	31	323677	916491
Total	44	361	43	364		

Year: 2003

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	128	579	63	31	323805	917070
February	107	528	57	28	323912	917598

March	104	588	63	31	324016	918186
April	109	581	0	30	324125	918767
May	104	694	38	31	324229	919461
June	105	658	47	30	324334	920119
July	91	699	47	31	324425	920818
August	123	667	36	31	324548	921485
September	115	621	33	30	324663	922106
October	66	654	38	31	324729	922760
November	114	579	37	30	324843	923339
December	99	600	34	31	324942	923939
Total	1265	7448	493	365		

Pool Name: SHOE BAR;WOLFCAMP, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	6	25	3	31	324948	923964
February	5	24	3	28	324953	923988
March	5	26	3	31	324958	924014
April	5	26	0	30	324963	924040
May	5	31	2	31	324968	924071
June	5	29	2	30	324973	924100
July	4	31	2	31	324977	924131
August	5	29	2	31	324982	924160
September	5	27	1	30	324987	924187
October	4	29	2	31	324991	924216
November	5	25	2	30	324996	924241
December	5	27	2	31	325001	924268
Total	59	329	24	365		

Year: 2004

Pool Name: SHOE BAR;STRAWN, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	48	593	23	31	325049	924861
February	92	572	31	29	325141	925433
March	107	736	32	31	325248	926169
April	145	808	41	30	325393	926977
May	144	663	31	31	325537	927640
June	120	679	60	30	325657	928319
July	98	1129	60	31	325755	929448
August	0	0	0	0	325755	929448
September	0	0	0	0	325755	929448

October	0	0	0	0	325755	929448
November	0	0	0	0	325755	929448
December	0	0	0	0	325755	929448
Total	754	5180	278	213		

Pool Name: SHOE BAR;WOLFCAMP, NORTH

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	2	26	1	31	325757	929474
February	4	25	1	29	325761	929499
March	5	32	1	31	325766	929531
April	8	35	2	30	325774	929566
May	7	28	1	31	325781	929594
June	5	30	3	30	325786	929624
July	4	49	3	31	325790	929673
August	0	0	0	0	325790	929673
September	0	0	0	0	325790	929673
October	0	0	0	0	325790	929673
November	0	0	0	0	325790	929673
December	0	0	0	0	325790	929673
Total	35	225	12	213		

Page last updated 07/22/2004. Webmaster gotech@prrc.nmt.edu

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Chesapeake Operating, Inc. P. O. Box 11050 Midland, TX 79702-8050		² OGRID Number 147179
		³ Reason for Filing Code/ Effective Date Re-establish production
⁴ API Number 30 -025-24473	⁵ Pool Name Shoe Bar; Wolfcamp, North	⁶ Pool Code 56295
⁷ Property Code	⁸ Property Name Hilburn	⁹ Well Number 1

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
E	13	16S	35E		1980	North	660	West	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	13	16S	35E		1980	North	660	West	Lea
¹² Lse Code Fee	¹³ Producing Method Code Pumping	¹⁴ Gas Connection Date 01/01/2004	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
022628	TNMPC P. O. Box 2528 Hobbs, NM		O	
011447	J. L. Davis 211 N. Colorado Midland, Texas 79701		G	

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD 12015	²⁸ PBTD 11600	²⁹ Perforations 11289 - 11356	³⁰ DHC, MC
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		
13 3/8	12 1/4	448	450 sx		
8 5/8	7	4798	600 sx		
	5 1/2	12 014	900 sx		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date 04/04/2004	³⁸ Test Length 24 hrs	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOP	⁴⁶ Test Method pumping
7		2	35		

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Brenda Coffman</i>		OIL CONSERVATION DIVISION Approved by: <i>[Signature]</i> Title: PETROLEUM ENGINEER	
Printed name: Brenda Coffman		Approval Date:	
Title: Regulatory Analyst			
E-mail Address: bcoffman@chkenergy.com			
Date: 06/21/2004	Phone: (432)685-4373	JUL 14 2004	

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
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☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Chesapeake Operating, Inc. P. O. Box 11050 Midland, TX 79702-8050		² OGRID Number 147179
		³ Reason for Filing Code/ Effective Date Re-establish production
⁴ API Number 30 -025-24473	⁵ Pool Name North Shoe Bar Strawn	⁶ Pool Code 56270
⁷ Property Code 33088	⁸ Property Name Hilburn	⁹ Well Number 1

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
E	13	16S	35E		1980	North	660	West	Lea

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	13	16S	35E		1980	North	660	West	Lea

¹² Lse Code Fee	¹³ Producing Method Code Pumping	¹⁴ Gas Connection Date 01/01/2004	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
022628	TNMPC P. O. Box 2528 Hobbs, NM		O	
011447	J. L. Davis 211 N. Colorado Midland, Texas 79701		G	

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description
-------------------	--

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBDT	²⁹ Perforations	³⁰ DHC, MC
		12015	11600	11289 - 11356	
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		
13 3/8	12 1/4	448	450 sx		
8 5/8	7	4798	600 sx		
	5 1/2	12 014	900 sx		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
		04/04/2004	24 hrs		
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method
7		2	35		pumping

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Brenda Coffman</i>		OIL CONSERVATION DIVISION	
Printed name: Brenda Coffman		Approved by: <i>Paul J. [Signature]</i>	
Title: Regulatory Analyst		Title: PETROLEUM ENGINEER	
E-mail Address: bcoffman@chkenergy.com		Approval Date: JUL 14 2004	
Date: 05/13/2004	Phone: (432)685-4373 4310		

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104A
Revised June 10, 2003
Submit 1 copy of the final affected wells
list along with 1 copy of this form per
number of wells on that list to appropriate
District Office

Change of Operator

Previous Operator Information:

OGRID: 025797
Name: Permian Resources, Inc.
Address: P.O. Box 590
Address: _____
City, State, Zip: Midland, TX 79702-0590

New Operator Information:

Effective Date: March 1, 2004
New Ogrid: 147179
New Name: Chesapeake Operating, Inc.
Address: P.O. Box 18496
Address: _____
City, State, Zip: Oklahoma City, OK 73154-0496

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

New Operator

Signature: *Douglas Jacobson*
Printed name: Douglas Jacobson
Title: Sr. Vice President
E-mail: _____
Address: _____
Date: 04/01/04 Phone: (405) 848-8000



Previous operator complete below:

Previous
Operator: PERMIAN RESOURCES, INC.
Previous
OGRID: 025797
Signature: *Robert H. Marshall*
Printed
Name: ROBERT H. MARSHALL
E-mail: _____
Address: _____

NMOCD Approval	
Signature: <u><i>Paul F. Kautz</i></u>	
Printed Name: <u>PAUL F. KAUTZ</u>	
District: <u>PETROLEUM ENGINEER</u>	
Date: <u>APR 08 2004</u>	

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-104
Revised March 25, 1999

Submit to Appropriate District Office
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☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address PERMIAN RESOURCES, INC. 608 N. Main Street, Midland, TX. 79701		² OGRID Number 025797
		³ Reason for Filing Code CH
⁴ API Number 30 - 025-24473	⁵ Pool Name Shoe Bar Wolfcamp, North Shoe Bar Strawn, North	⁶ Pool Code 56295 56290
⁷ Property Code 25993 07687	⁸ Property Name HILBURN	⁹ Well Number 1

II. ¹⁰ Surface Location

UL or lot no. E	Section 13	Township 16S	Range 35E	Lot Idn	Feet from the 1980	North/South Line North	Feet from the 660	East/West line West	County Lea
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	----------------------	------------------------	---------------

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Loe Code P	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
022628	Texas New Mexico Pipeline Co. P. O. Box 2528 Hobbs, NM.	1877610	O	
011447	J. L. Davis P. O. Box 4836 Midland, TX. 79701	1877630	G	

IV. Produced Water

²³ POD 1877650	²⁴ POD ULSTR Location and Description
------------------------------	--

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBTD	²⁹ Perforations	³⁰ DHC, MC
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

"I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name: Robert H. Marshall

Title: Vice President

Date: 5/22/00

Phone: 915-685-1855

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

"If this is a change of operator fill in the OGRID number and name of the previous operator
MERIT ENERGY COMPANY
014591

Previous Operator Signature

Printed Name

Title

Date

Arlene Valliquette

Arlene Valliquette, Mgr. - Regulatory Affairs

5/22/00

District I
1625 N. French Dr., Hobbs, NM 88240

District II
811 South First, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

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Revised March 25, 1999

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☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address PERMIAN RESOURCES, INC. 608 N. Main Street, Midland, TX. 79701		² OGRID Number 025797
		³ Reason for Filing Code MAY 23 2000 CH
⁴ API Number 30 - 025-24473	⁵ Pool Name Shoe Bar Wolfcamp, North Shoe Bar Strawn, North	⁶ Pool Code 50295 56270
⁷ Property Code 25993 87687	⁸ Property Name HILBURN	⁹ Well Number 1

II. ¹⁰ Surface Location

UL or lot no. E	Section 13	Township 16S	Range 35E	Lot Idn	Feet from the 1980	North/South Line North	Feet from the 660	East/West line West	County Lea
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	----------------------	------------------------	---------------

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lee Code P	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
022628	Texas New Mexico Pipeline Co. P. O. Box 2528 Hobbs, NM.	1877610	O	
011447	J. L. Davis P. O. Box 4836 Midland, TX. 79701	1877630	G	

IV. Produced Water

²³ POD 1877650	²⁴ POD ULSTR Location and Description
------------------------------	--

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBTD	²⁹ Perforations	³⁰ DHC, MC
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Robert H. Marshall

Printed name: Robert H. Marshall

Title: Vice President

Date: 5/22/00

Phone: 915-685-1855

OIL CONSERVATION DIVISION

Approved by:

ORIGINAL SIGNED BY

Title:

Approval Date:

⁴⁸ If this is a change of operator fill in the OGRID number and name of the previous operator
MERIT ENERGY COMPANY
014591

Previous Operator Signature

Arlene Valliquette

Printed Name

Arlene Valliquette, Mgr. - Regulatory Affairs

Title

Date

5/22/00



BRUCE KING
GOVERNOR

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

February 18, 1993

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

Merit Energy Company
122251 Merit Drive, Suite 500
Dallas, TX 75251

Attn: Sheryl J. Carruth

Re: Hilburn #1
Unit E, Sec. 13, T16S, R35E
North Shoe Bar Wolfcamp and
North Shoe Bar Strawn

Gentlemen:

Since there was a misunderstanding of terminology between multiple completion and downhole commingling, we have assigned an allowable to the North Shoe Bar Strawn zone in the above-referenced well and you will be allowed to produce this commingled with the North Shoe Bar Wolfcamp on a temporary basis. It is our understanding that ownership is common in both zones.

This temporary approval will be for 30 days during that time you must make application to our Santa Fe office, with a copy to Hobbs office, requesting downhole commingle. See Rule 303 C in our Rules and Regs for instructions on making application.

Very truly yours,

OIL CONSERVATION DIVISION

Jerry Sexton
Supervisor, District I

ed

P.S. Please file a new acreage dedication plat for the North Shoe Bar Strawn Pool (160 acres). The only one we have for that pool was signed by Mesa Petroleum. This C-102 does not need to be signed by surveyor, but needs to be signed by operator.



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

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator Merit Energy Company		Well API No. 30-025-24473
Address 122251 Merit Drive, Suite 500, Dallas, TX 75251		
Reason(s) for Filing (Check proper box) ☐ Other (Please explain)		
New Well ☐	Change in Transporter of: ☐ Dry Gas ☐	
Recompletion ☒	Oil ☐	Remove RBP and commingle Strawn with existing Wolfcamp zone. <i>Long Bedding</i>
Change in Operator ☐	Casinghead Gas ☐	Condensate ☐
If change of operator give name and address of previous operator		

II. DESCRIPTION OF WELL AND LEASE

Lease Name Hilburn	Well No. 1	Pool Name, including Formation North Sheeher Strawn	Kind of Lease State, Federal or Fee	Lease No.
Location Unit Letter E 1980 Feet From The North Line and 660 Feet From The West Line Section 13 Township 16S Range 35E NMPM Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐	Address (Give address to which approved copy of this form is to be sent) Texas New Mexico Pipeline Co. P. O. Box 2528, Hobbs, NM					
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐	Address (Give address to which approved copy of this form is to be sent) J L Davis Co 211 North Colorado, Midland, TX 79701					
If well produces oil or liquids, give location of tanks.	Unit E	Sec. 13	Twp. 16S	Rge. 35E	Is gas actually connected? Yes	When? 12-31-91
If this production is commingled with that from any other lease or pool, give commingling order number.					Unknown	

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well ☒	Gas Well ☐	New Well ☐	Workover ☐	Deepen ☐	Plug Back ☐	Same Res'v ☐	Diff Res'v ☐
Date Spudded 1-11-93	Date Compl. Ready to Prod. 1-15-93	Total Depth 12015	P.B.T.D. 11620					
Elevations (OF, RKB, RT, GR, etc.) 3967 GL	Name of Producing Formation Strawn	Top Oil/Gas Pay 11289	Tubing Depth 11600					
Performances 11289-11356			Depth Casing Shoe					

TUBING, CASING AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
13 3/8	48	448	450 sx CL H
8 5/8	36	4798	400 Lt & 200 C
5 1/2	17 & 20	12014	900 sx

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank 1-18-93	Date of Test 2-5-93	Producing Method (Flow, pump, gas lift, etc.) Pumping	
Length of Test 24	Tubing Pressure NA	Casing Pressure NA	Choke Size NA
Actual Prod. During Test	Oil - Bbls. 25	Water - Bbls. 15	Gas - MCF 394

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature
Sheryl J. Carruth
Printed Name
2-11-93
Title
(214) 701-8377
Date
Telephone No.

OIL CONSERVATION DIVISION

Date Approved FEB 18 1993
By ORIGINAL SIGNER BY JERRY CEXTON
DISTRICT I
Title

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Form C-105
Revised 1-1-89

WELL COMPLETION OR RECOMPLETION REPORT AND LOG													
1a. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐					7. Lease Name or Unit Agreement Name Hilburn								
b. Type of Completion: NEW WELL ☐ WORK OVER ☒ DEEPEN ☐ PLUG BACK ☐ DEEP RESER ☐ OTHER ☐					Commingle Wolfcamp and Strawn Completions								
2. Name of Operator Merit Energy Company					8. Well No. 1								
3. Address of Operator 12221 Merit Drive, Suite 500, Dallas, TX 75251					9. Pool name or Wildcat North Strawn								
4. Well Location Unit Letter <u>E</u> : <u>1980</u> Feet From The <u>North</u> Line and <u>660</u> Feet From The <u>West</u> Line Section <u>13</u> Township <u>16S</u> Range <u>35E</u> NMPM <u>Lea</u> County													
10. Date Spudded 1-11-93		11. Date T.D. Reached		12. Date Compl. (Ready to Prod.) 1-15-93		13. Elevations (DF & RKB, RT, GR, etc.) 3967 GL		14. Elev. Casinghead					
15. Total Depth 12015		16. Plug Back T.D. 11620		17. If Multiple Compl. How Many Zones? <u>2</u>		18. Intervals Drilled By Rotary Tools		Cable Tools					
19. Producing Interval(s), of this completion - Top, Bottom, Name 11289 - 11356 Strawn								20. Was Directional Survey Made					
21. Type Electric and Other Logs Run NA								22. Was Well Cored					
23. CASING RECORD (Report all strings set in well)													
CASING SIZE		WEIGHT LB/FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED			
13 3/8		48		448		17 1/2		450 sx Class H					
8 5/8		36		4798		11		400 It & 200 C					
5 1/2		17 & 20		12014		7 7/8		900 sx					
24. LINER RECORD										25. TUBING RECORD			
SIZE		TOP		BOTTOM		SACKS CEMENT		SCREEN		SIZE	DEPTH SET	PACKER SET	
										2 7/8	11600		
26. Perforation record (interval, size, and number) 11289 - 11356 (already existed)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.							
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED					
						10700		Removed RBP opening up					
								Strawn Reservoir					
28. PRODUCTION													
Date First Production 1-18-93		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping 1 1/4" X 28'						Well Status (Prod. or Shut-in) Producing					
Date of Test 2-5-93		Hours Tested 24		Coke Size NA		Prod'n For Test Period		Oil - Bbl 25		Gas - MCF 394		Water - Bbl 15	Gas - Oil Ratio 15760
Flow Tubing Press. NA		Casing Pressure NA		Calculated 24-Hour Rate		Oil - Bbl 25		Gas - MCF 394		Water - Bbl 15		Oil Gravity - API - (Conv.) 38	
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold										Test Witnessed By Russell Whited			
30. List Attachments													
31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief													
Signature <u>Sheryl J. Carruth</u>						Printed Name <u>Sheryl J. Carruth</u>		Title <u>Reg. Manager</u>		Date <u>2-12-93</u>			

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-dug or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southwestern New Mexico

Northwestern New Mexico

T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn 11275	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka 11388	T. Pictured Cliffs	T. Penn. "D"
T. Yates 3134	T. Miss 11942	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen 3993	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres 4754	T. Simpson	T. Gallup	T. Ignacio Otzie
T. Glorieta 6282	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb 7515	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo 8206	T.	T. Wingate	T.
T. Wolfcamp 9566	T.	T. Chinle	T.
T. Penn	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
No. 2, from.....to.....feet.....
No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator MERIT ENERGY COMPANY		Well API No. 30-025-24473
Address 12221 MERIT DRIVE, STE 500, DALLAS, TEXAS 75851		
Reason(s) for Filing (Check proper box) ☐ Other (Please explain)		
New Well ☐	Change in Transporter of: ☐	
Recompletion ☐	Oil ☐	Dry Gas ☐
Change in Operator ☒	Casinghead Gas ☐	Condensate ☐
Effective Date 11/1/92		
If change of operator give name and address of previous operator CONOCO INC, 10 DESTA DR. STE 100W, MIDLAND, TEXAS 79705		

II. DESCRIPTION OF WELL AND LEASE

Lease Name HILBURN	Well No. 1	Pool Name, including Formation NORTH SHOE BAR WOLF CAMP	Kind of Lease State, Federal or <u>Fee</u>	Lease No.
Location Unit Letter E : 1980 Feet From The NORTH Line and 660 Feet From The WEST Line Section 13 Township 16 S Range 35 E , NMPM , LEA County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ TEXAS-NEW MEXICO PIPELINE CO	Address (Give address to which approved copy of this form is to be sent) P.O. BOX 2528, HOBBS, NM
Name of Authorized Transporter of Casinghead Gas ☒ or Dry Gas ☐ J. L. DAVIS	Address (Give address to which approved copy of this form is to be sent) 211 NORTH COLORADO, MIDLAND, TX. 79701
If well produces oil or liquids, give location of tanks.	Unit E Sec. 13 Twp. 16S Rge. 35E Is gas actually connected? ☐ When?

If this production is commingling with that from any other lease or pool, give commingling order number: **CTB-249**

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth		P.B.T.D.			
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay		Tubing Depth			
Perforations					Depth Casing Shoe			
TUBING, CASING AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature
Sheryl J. Carruth Regulatory Manager
Printed Name
11/4/92 (214) 701-8377
Date
Telephone No.

OIL CONSERVATION DIVISION

Date Approved **NOV 10 '92**

By **ORIGINAL SIGNED BY JERRY SEXTON**
DISTRICT SUPERVISOR

Title

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

OIL CONSERVATION DIVISION

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

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator Conoco Inc.		Well API No. 30-025-24473
Address 10 Desta Drive Ste 100W, Midland, TX 79705		
Reason(s) for Filing (Check proper box) New Well ☐ Change in Transporter of: ☐ Other (Please explain) Recompletion ☒ Oil ☐ Dry Gas ☐ RECOMPLETE THE WOLFCAMP AND DUAL WITH Change in Operator ☐ Casinghead Gas ☐ Condensate ☐ STRAWN AT A LATER DATE		

If change of operator give name
and address of previous operator

Cancel to Shoe Bar Stream

II. DESCRIPTION OF WELL AND LEASE

shown w/ #2-C

Lease Name HILBURN	Well No. 1	Pool Name, Including Formation NORTH SHOE BAR WOLFCAMP	Kind of Lease State, Federal or <u>Fee</u>	Lease No.
Location Unit Letter <u>E</u> 1980 Feet From The <u>NORTH</u> Line and <u>660</u> Feet From The <u>WEST</u> Line Section <u>13</u> Township <u>16 S</u> Range <u>35 E</u> , NMPM, LEA County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ TEXAS NEW MEXICO PIPELINE CO.	Address (Give address to which approved copy of this form is to be sent) P.O. BOX 2528, HOBBS, NM 88240	
Name of Authorized Transporter of Casinghead Gas ☒ or Dry Gas ☐ J. L. DAVIS	Address (Give address to which approved copy of this form is to be sent) 211 N. COLORADO, MIDLAND TX. 79701	
If well produces oil or liquids, give location of tanks.	Unit <u>E</u> Sec. <u>13</u> Twp. <u>16S</u> Rge. <u>35E</u>	Is gas actually connected? <u>YES</u> When? <u>12-13-91</u>

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <u>XX</u>	Gas Well	New Well	Workover	Deepen	Plug Back <u>XX</u>	Same Res'v	Diff Res'v <u>XX</u>
Date Spudded 8-2-73	Date Compl. Ready to Prod. 12-13-91	Total Depth 12,015	P.B.T.D. 10,700					
Elevations (DF, RKB, RT, GR, etc.) GL 3967	Name of Producing Formation WOLFCAMP	Top Oil/Gas Pay 10398	Tubing Depth 10243					
Perforations 10398 - 10469	Depth Casing Shoe							

TUBING, CASING AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
17 1/2	13 3/8	448	450
11	8 5/8	4798	600 SX
7 7/8	5 1/2	12,014	900 SX

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank 12-13-91	Date of Test 12-15-91	Producing Method (Flow, pump, gas lift, etc.) PUMPING	
Length of Test 24	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls. 17	Water - Bbls. 20	Gas - MCF 8

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Bill R. Keathly
Signature BILL R. KEATHLY SR. REGULATORY SPEC.

Printed Name Title
7-22-92 915-686-5424
Date Telephone No.

OIL CONSERVATION DIVISION

Date Approved JUL 27 '92

By ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

Title

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

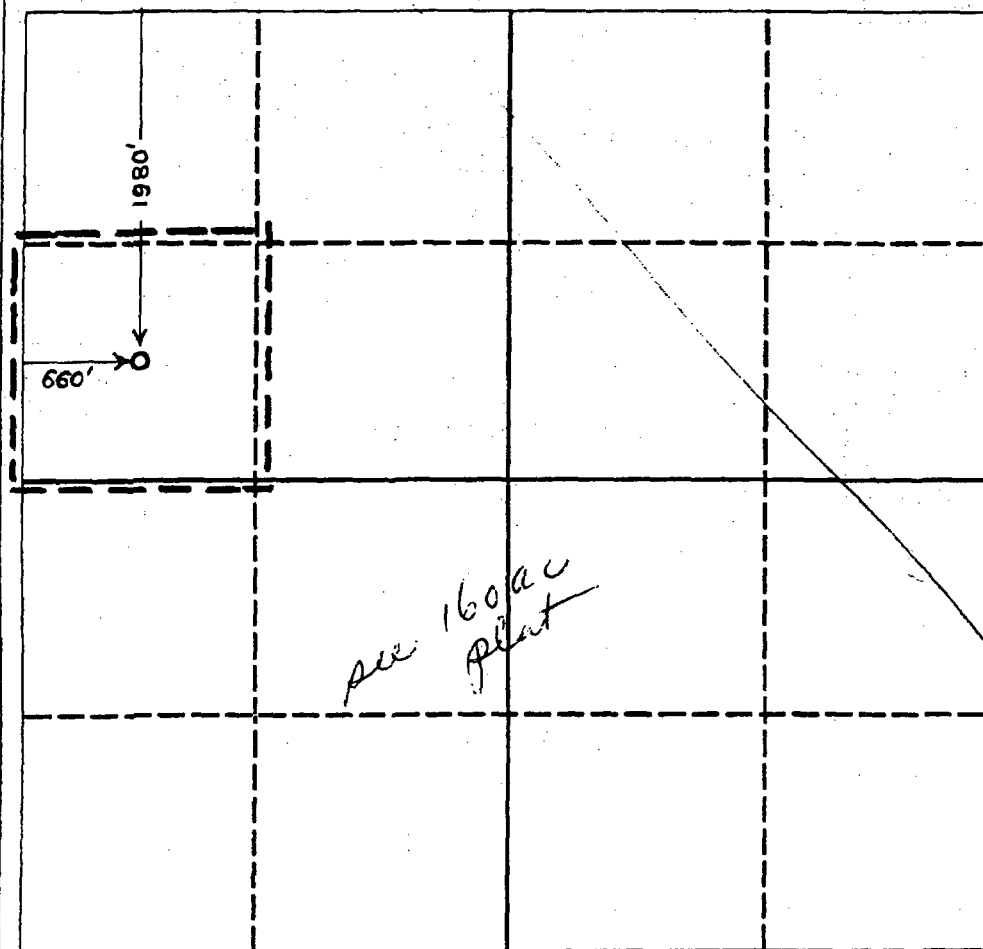
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Conoco, Inc.			Lease Hilburn		Well No. 1
Unit Letter E	Section 13	Township 16S	Range 35E	NMPM	County Lea
Actual Footage Location of Well: 1980 feet from the North line and 660 feet from the West line					
Ground level Elev. 3967'	Producing Formation Wolfcamp		Pool North Shoebar Wolfcamp		Dedicated Acreage: 40 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
☐ Yes ☐ No If answer is "yes" type of consolidation _____
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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

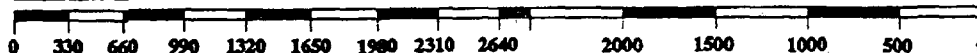
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature
Jerry W. Hoover
Printed Name
Jerry W. Hoover
Position
Sr. Conservation Coord.
Company
Conoco, Inc.
Date
August 13, 1991

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
Signature & Seal of Professional Surveyor
Certificate No.



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.

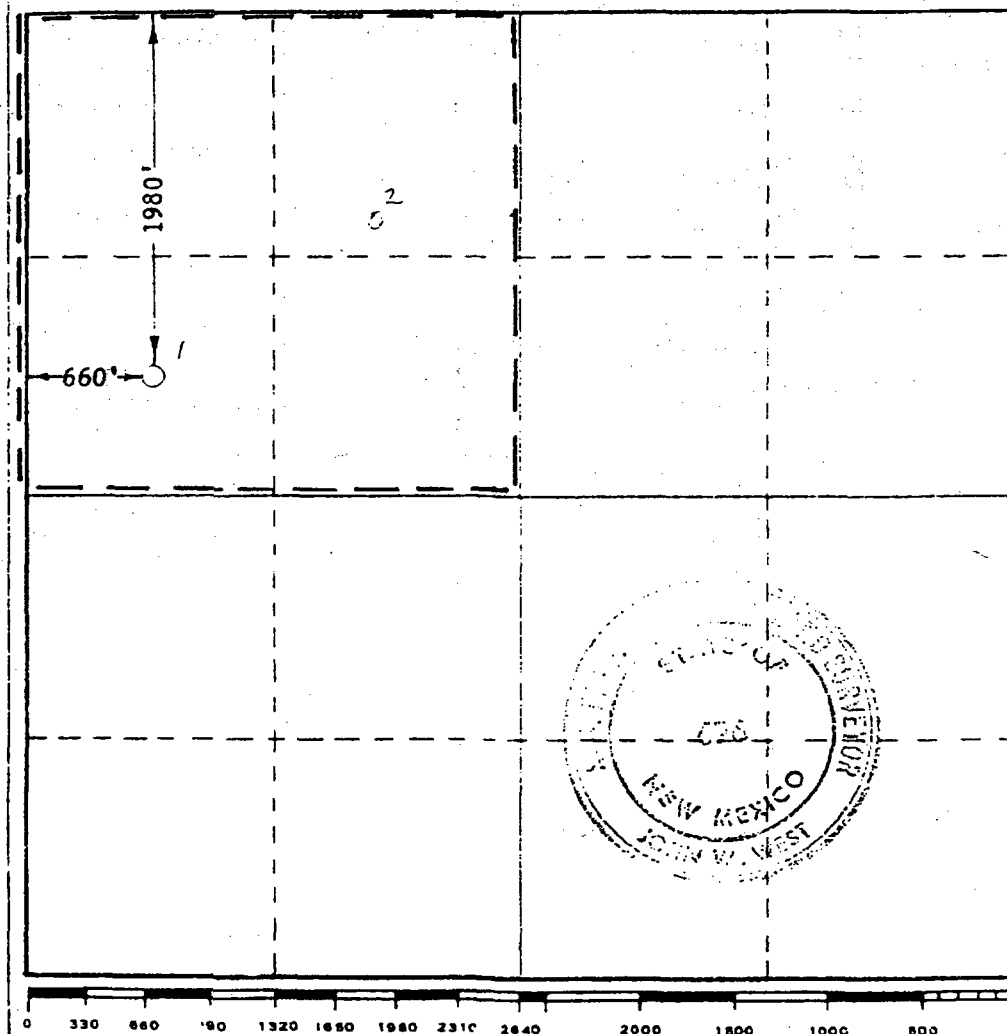
Operator Conoco Inc.		Lease HILBURN		Well No. 1
Unit Letter E	Section 13	Township 16 SOUTH	Range 35 EAST	County LEA
Actual Footage Location of Well: 660 feet from the EAST line and 1980 feet from the NORTH line				
Ground Level Elev. 3967'	Producing Formation Wolfcamp	Pool North Shoe Bar Wolfcamp	Dedicated Acreage: 160 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 _____

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

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

John W. Hoover
Regulatory Coordinator

Conoco Inc.

10/15/90

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
JUNE 5, 1973

Registered Professional Engineer
and/or Land Surveyor

John W. West
Certificate No. **676**

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-105
Revised 1-1-89

OIL CONSERVATION DIVISION

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

WELL API NO. 30-025-24473

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

7. Lease Name or Unit Agreement Name
HILBURN

8. Well No. 1

9. Pool name or Wildcat
NORTH SHOEBAR WOLFCAMP

1a. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐

b. Type of Completion:
NEW WELL ☐ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☒ OTHER ☐

2. Name of Operator
CONOCO, INC

3. Address of Operator
10 BESTA DR. STE 100W, MIDLAND, TX. 79705

4. Well Location
Unit Letter E : 1980 Feet From The NORTH Line and 660 Feet From The WEST Line
Section 13 Township 16 S Range 35 E NMPM LRA County

10. Date Spudded 8-2-73 11. Date T.D. Reached 9-11-73 12. Date Compl. (Ready to Prod.) 12-13-91 13. Elevations (DF & RKB, RT, GR, etc.) GR 3967 14. Elev. Casinghead 3967

15. Total Depth 12015 16. Plug Back T.D. 10,700 17. If Multiple Compl. How Many Zones? NA 18. Intervals Drilled By Rotary Tools XX Cable Tools

19. Producing Interval(s), of this completion - Top, Bottom, Name 10398 - 10469 WOLFCAMP 20. Was Directional Survey Made NO

21. Type Electric and Other Logs Run 22. Was Well Cored NO

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48	448	17 1/2	450 SX CLASS H	
8 5/8	36	4798	11	400 LIGHT, 200 C	
5 1/2	17 & 20	12014	7 7/8	900 SX	

LINER RECORD					TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2 7/8	10243	

26. Perforation record (interval, size, and number)				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
4" GUN, 4 JSPF: 10398-10406, 10454-10469				DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
				10398-10469	4500 GAL 15% NEFE HCL FOLLOW
					W/ 800 GAL 10 PPG. BRINE W/
					1 PPG. ROCK SALT.

PRODUCTION

Date First Production 12-13-91		Production Method (Flowing, gas lift, pumping - Size and type pump) PUMPING					Well Status (Prod. or Shut-in) PRODUCING	
Date of Test 12-15-91	Hours Tested 24	Choke Size NA	Prod'n For Test Period	Oil - Bbl. 17	Gas - MCF 8	Water - Bbl. 20	Gas - Oil Ratio 471	
Flow Tubing Press.	Casing Pressure	Calculated 24- Hour Rate	Oil - Bbl. 17	Gas - MCF 8	Water - Bbl. 20	Oil Gravity - API - (Corr.) 38.0		

29. Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD Test Witnessed By D.W. ROGERS

30. List Attachments

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Signature *Bill R. Keathly* Printed BILL R. KEATHLY SR. REGULATORY S 7-22-92
Name Title Date

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy _____
 T. Salt _____
 B. Salt _____
 T. Yates 3134
 T. 7 Rivers 3993
 T. Queen _____
 T. Grayburg 4754
 T. San Andres 6282
 T. Glorieta _____
 T. Paddock _____
 T. Blinberry 515
 T. Tubb _____
 T. Drinkard _____
 T. Abo 8206
 T. Wolfcamp 9566
 T. Penn _____
 T. Cisco (Bough C) _____

T. Canyon 11275
 T. Strawn 11388
 T. Atoka 11942
 T. Miss _____
 T. Devonian _____
 T. Silurian _____
 T. Montoya _____
 T. Simpson _____
 T. McKee _____
 T. Ellenburger _____
 T. Gr. Wash _____
 T. Delaware Sand _____
 T. Bone Springs 10287
 T. 3 BROS. _____
 T. _____
 T. _____
 T. _____

Northwestern New Mexico

T. Ojo Alamo _____
 T. Kirtland-Fruitland _____
 T. Pictured Cliffs _____
 T. Cliff House _____
 T. Menefee _____
 T. Point Lookout _____
 T. Mancos _____
 T. Gallup _____
 Base Greenhorn _____
 T. Dakota _____
 T. Morrison _____
 T. Todilto _____
 T. Entrada _____
 T. Wingate _____
 T. Chinle _____
 T. Permian _____
 T. Penn "A" _____

T. Penn. "B" _____
 T. Penn. "C" _____
 T. Penn. "D" _____
 T. Leadville _____
 T. Madison _____
 T. Elbert _____
 T. McCracken _____
 T. Ignacio Otzie _____
 T. Granite _____
 T. _____
 T. _____
 T. _____
 T. _____
 T. _____
 T. _____
 T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____
 No. 2, from _____ to _____
 No. 3, from _____ to _____
 No. 4, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet
 No. 2, from _____ to _____ feet
 No. 3, from _____ to _____ feet

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology	From	To	Thickness in Feet	Lithology
0	1630	1630	SURFACE SANDS				
1630	1950	320	RED BED				
1950	4720	2770	ANHYDRITE, SALT, GYP				
4720	7350	2630	DOLOMITE, ANHYDRITE				
7350	10110	2760	LIME & SHALE				
10110	10380	270	DOLOMITE, LIME & SHALE				
10380	10470	90	WOLFCAMP DEVELOPMENT				
10470	11275	805	SHALE & LIME				
11275	11400	125	STRAWN DEVELOPMENT				
11400	11698	298	SHALE, LIME				
11698	11890	192	MORROW SAND & SHALE				
11890	12015	125	SHALE				

RECEIVED
 JUL 11 1911

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-183
Revised 1-1-89

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

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

DISTRICT III
1000 Rio Blanco Rd., Aztec, NM 87410

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

WELL API NO. 30-025-24473
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name HILBURN
8. Well No. 1
9. Pool name or Wildcat NORTH SHOEBAR WOLFCAMP

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL ☒ GAS ☐ OTHER ☐	
2. Name of Operator CONOCO INC.	
3. Address of Operator 10 Desta Drive STE 100W, Midland, TX 79705	
4. Well Location Unit Lease E : 1980 Feet From The NORTH Line and 660 Feet From The WEST Line Section 13 Township 16 S Range 35 E N40PM LEA County	
10. Elevation (Show whether DF, AKB, RT, GR, etc.) GL 3967	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
OTHER: ☐	PLUG AND ABANDONMENT ☐
	CASING TEST AND CEMENT JOB ☐
	OTHER: RECOMPLETE TO WOLFCAMP ☒

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

12-2-91 MIRU. POOH W/ TBG & PUMPING EQUIP., GIH W/ 4 5/8" BIT & 2 7/8 X 5 1/2" SCRAPER TO PBTD (11620') CIRC CLEAN POOH.
GIH W/ RBP & PKR, SET RBP @ 10700' W/ 2 SX SAND ON TOP.
RIH W/ 4" CSG GUN W/ 4 JSPE, PERF WOLFCAMP 10398-10406, 10428-10434 AND 10454-10469, POH.
RIH W/ TREATING PKR, SET AT 10279, ACID W/ 4500 GAL 15% NFEH HCL FOLLOWED W/ 800 GAL 10 PPG. BRINE W/ 1 PPG ROCK SALT.
GIH W/ PRODUCTION EQUIPMENT.
RDMO
WELL PLACED ON PRODUCTION 12-13-91

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Bill R. Keathly TITLE SR REGULATORY SPEC. DATE 7-22-92
TYPE OR PRINT NAME BILL R. KEATHLY TELEPHONE NO. 915-686-5424

(This space for State Use)
ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

JUL 27 1992

21 n 11 1 11 2



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

BRUCE KING
GOVERNOR

July 16, 1992

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

Conoco Inc.
10 Desta Drive, Suite 100 W
Midland, TX 79705

Attn: Jerry Hoover

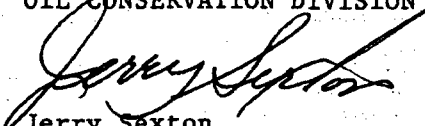
RE: Intent to Recomplete
Hilburn #1 Unit E Sec 13, T16S, R35E

Gentlemen:

Your intention to recomplete the above-referenced well from the North Shoe Bar Strawn to the Wolfcamp has expired and no progress reports have been received so this proposed work is considered cancelled.

Very truly yours,

OIL CONSERVATION DIVISION


Jerry Sexton
Supervisor, District I

ed

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-101
Revised 1-1-89

OIL CONSERVATION DIVISION

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

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

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

API NO. (assigned by OCD on New Wells)

300252447300

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work:

DRILL ☐

RE-ENTER ☐

DEEPEN ☐

PLUG BACK ☐

b. Type of Well:

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☐

MULTIPLE
ZONE ☒

7. Lease Name or Unit Agreement Name

Hilburn

2. Name of Operator

Conoco, Inc.

8. Well No.

1

3. Address of Operator

10 Desta Dr. Ste 100W, Midland, TX 79705

9. Pool name or Wildcat

North Shoebar Wolfcamp

4. Well Location

Unit Letter E : 1980 Feet From The North Line and 660 Feet From The West Line

Section 13

Township 16S

Range 35E

NMPM

Lea

County

10. Proposed Depth

12015'

11. Formation

Wolfcamp

12. Rotary or C.T.

13. Elevations (Show whether DF, RT, GR, etc.)

GR 3967'

14. Kind & Status Plug, Bond

15. Drilling Contractor

16. Approx. Date Work will start

17.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
NA	13-3/8"	48#	448'	450 sxs	surface
NA	8-5/8"	24#	4798'	NA	NA
NA	5-1/2"	20#	12014'	900 sxs	NA

It is proposed to complete the Wolfcamp which, when rate permits, will be dualled with the current Strawn completion. The Wolfcamp will be completed as follows:

1. Clean out hole to PBTD @ 11620'
2. Set CIBP at 11250'
3. Perforate Wolfcamp @ 10398'-406', 10428'-434, & 10454'-469'.
4. Acidize Wolfcamp with 4500 gals NEFE HCl
5. Put on production.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

TITLE Sr. Conservation Coordinator DATE 8/8/91

TYPE OR PRINT NAME

Jerry W. Hoover

(915) 686-6548 TELEPHONE NO.

(This space for State Use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

1991

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-103
Revised 1-1-89

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

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

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

WELL API NO.

300252447300

5. Indicate Type of Lease

STATE ☐

FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Hilburn

8. Well No.

1

9. Pool name or Wildcat

North Shoebar Wolfcamp

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

OIL
WELL ☒

GAS

WELL ☐

OTHER

2. Name of Operator

Conoco Inc.

3. Address of Operator

10 Desta Drive West, Midland, TX 79705

4. Well Location

Unit Letter E : 1980 Feet From The north Line and 660 Feet From The west Line

Section 13 Township 16S Range 35E NMPM Lea County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

REMEDIAL WORK ☐

ALTERING CASING ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

COMMENCE DRILLING OPNS. ☐

PLUG AND ABANDONMENT ☐

PULL OR ALTER CASING ☐

CASING TEST AND CEMENT JOB ☐

OTHER: Recomplete ☒

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

It is proposed to temporarily recomplete this well to the Wolfcamp formation from the current Strawn completion by the following procedure. It is anticipated that, after testing the Wolfcamp completion, approval will be sought to downhole commingle the Strawn and Wolfcamp completions.

1. RIH and set RBP above the Strawn at 11,175'.
2. Perforate Wolfcamp 10,236-10,542 with 69 shots.
3. Acidize with 120 bbls of 15% HCL.
4. RIH with production equipment and put on test.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Jerry W. Hoover

TITLE

Regulatory Coordinator

DATE

TYPE OR PRINT NAME

Jerry W. Hoover

TELEPHONE NO.

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

OCT 17 1990

Submit 5 Copies
Appropriate District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

REQUEST FOR ALLOWABLE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Operator Conoco Inc.		Well APN No. 30-025-24473
Address P. O. Box 460, Hobbs, New Mexico 88240		
Reason(s) for Filing (Check proper box) ☐ Other (Please explain)		
New Well ☐	Change in Transporter of:	
Recompletion ☐	Oil ☐ Dry Gas ☐	
Change in Operator ☒	Casinghead Gas ☐ Condensate ☐	
If change of operator give name and address of previous operator Mesa Operating Limited Partnership, P. O. Box 2009, Amarillo, Tx. 79189		

II. DESCRIPTION OF WELL AND LEASE

Lease Name Hilburn	Well No. 1	Pool Name, including Formation Shoe Bar Strawn, North	Kind of Lease State, Federal or Fee	Lease No.
Location Unit Letter E : 1980 Feet From The N Line and 660 Feet From The W Line Section 13 Township 16S Range 35E, NMPM, Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ Texas New Mexico Pipeline Company	Address (Give address to which approved copy of this form is to be sent) P. O. Box 2528, Hobbs, New Mexico 88240	
Name of Authorized Transporter of Casinghead Gas ☒ or Dry Gas ☐ Tipperary Corporation	Address (Give address to which approved copy of this form is to be sent) 500 W. Illinois, Midland, Texas 79701	
If well produces oil or liquids, give location of tanks. Unit E Sec. 13 Twp. 16S Rge. 35E	Is gas actually connected? Yes	When? 4-22-74
If this production is commingled with that from any other lease or pool, give commingling order number: CTB-249		

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		

TUBING, CASING AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

V. TEST DATA AND REQUEST FOR ALLOWABLE

OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. OPERATOR CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature W. W. Baker
Printed Name W. W. Baker, Administrative Supervisor
Date 5-4-89 Telephone No. (505) 397-5800

OIL CONSERVATION DIVISION

Date Approved MAY 9 1989

By ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

Title _____

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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	NAT
OPERATOR	
PERMITS OFFICE	

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-104
Revised 10-01-78
Format 08-01-83
Page 1

REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Operator Mesa Operating Limited Partnership	
Address P.O. Box 2009, Amarillo, Texas 79189	
Reason(s) for filing (Check proper box)	Other (Please explain)
☐ New Well ☐ Recompletion ☒ Change in Ownership	Change in Transporter of: ☐ Oil ☐ Condensate ☐ Dry Gas ☐ Condensate

If change of ownership give name and address of previous owner: Mesa Petroleum Co., P.O. Box 2009, Amarillo, Texas 79189

II. DESCRIPTION OF WELL AND LEASE

Lease Name HILBURN	Well No. 1	Pool Name, including Formation SHOE BAR NORTH STRAWN	Kind of Lease State, Federal or <u>Fee</u>	Lease No.
Location Unit Letter <u>E</u> : <u>1980</u> Feet From The <u>NORTH</u> Line and <u>660</u> Feet From The <u>WEST</u> Line of Section <u>13</u> Township <u>16S</u> Range <u>35E</u> NMPM. <u>LEA</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ TEXAS-NEW MEXICO PIPE LINE CO.	Address (Give address to which approved copy of this form is to be sent) P.O. BOX 1510, Midland, Texas 79701	
Name of Authorized Transporter of Gas ☒ or Dry Gas ☐ TIPPERARY CORPORATION	Address (Give address to which approved copy of this form is to be sent) 500 W. Illinois, Midland, Texas 79701	
If well produces oil or liquids, give location of tanks.	Unit E	Sec. 13
	Twp. 16	Rge. 35
	Is gas actually connected? <u>YES</u> When <u>4-22-74</u>	

If this production is commingled with that from any other lease or pool, give commingling order number: CTB-249

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

R. E. Mathis

REGULATORY AGENT

February 14, 1986

(Date)

OIL CONSERVATION DIVISION

APPROVED FEB 21 1986, 19
BY ORIGINAL SIGNED BY JERRY SEATON
TITLE DISTRICT SUPERVISOR

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

XC: NMCD-(0+4), WF, CR, Reg.

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LAND OFFICE		
TRANSPORTER	OIL	
	GAS	
OPERATOR		
PRORATION OFFICE		

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-65

I. Operator
Mesa Petroleum Co.
 Address
P. O. Box 2009, Amarillo, Texas 79105

Reason(s) for filing (Check proper box)
 New Well ☐ Change in Transporter of: Oil ☐ Dry Gas ☐ Other (Please explain)
 Recompletion ☐ Casinghead Gas ☐ Condensate ☐ **To reflect gas connection date.**
 Change in Ownership ☐

If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name Hilburn	Lease No.	Well No. 1	Pool Name, including Formation Shoe Bar, North, Strawn.	Kind of Lease State, Federal or Fee Fee
Location Unit Letter E : 1980 Feet From The North Line and 660 Feet From The West Line of Section 13 Township 16S Range 35E , NMPM, Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ Texas-New Mexico Pipe Line Co.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 1510, Midland, Texas 79701	
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐ Tipperary Corporation	Address (Give address to which approved copy of this form is to be sent) 500 W. Illinois, Midland, Texas 79701	
If well produces oil or liquids, give location of tanks.	Unit E	Sec. 13
	Twp. 16	Rge. 35
	Is gas actually connected? Yes When April 22, 1974	

If this production is commingled with that from any other lease or pool, give commingling order number:

CTB-249

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well ☒	Gas Well ☐	New Well ☒	Workover ☐	Deepen ☐	Plug Back ☐	Same Res'v. ☒	Diff. Res'v. ☐
Date Spudded 8-2-73	Date Compl. Ready to Prod. 9-28-73		Total Depth 12,015'		P.B.T.D. 11,620'			
Elevations (DF, RKB, RT, GR, etc.) 3967' GR	Name of Producing Formation Strawn		Top Oil/Gas Pay 11,288'		Tubing Depth 11,233'			
Perforations 11289-94, 11302-08, 11316-20, 11324-28, 11332-56 (2JSPF)					Depth Casing Shoe 12,014'			
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
17 1/2"	13 3/8"		448'		450			
11 "	8 5/8"		4798'		600			
7 7/8"	5 1/2"		12014'		900			
5 1/2"	2 7/8"		11233'					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks 9-28-73	Date of Test 4-27-74	Producing Method (Flow, pump, gas lift, etc.) Flow	
Length of Test 24 hrs.	Tubing Pressure 1495	Casing Pressure pkc	Choke Size 17/64
Actual Prod. During Test	Oil-Bbls. 690	Water-Bbls. -----	Gas-MCF 1250

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure	Casing Pressure	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Michael P. Houston
 (Signature)

Production Engineer

(Title)

May 7, 1974

(Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 19____

BY _____
 (Signature)

TITLE _____
 (Title)

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TRANSPORTER	OIL
	GAS
OPERATOR	
PRORATION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
 Supersedes Old C-104 and C-110
 Effective 1-1-65

I. OPERATOR
 Mesa Petroleum Co.
 Address
 Box 2009, Amarillo, Texas 79105

Reason(s) for filing (Check proper box)
 New Well ☐ Change in Transporter of:
 Recompletion ☐ Oil ☒ Dry Gas ☐
 Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

Other (Please explain)
 Well has been shut in since completion testing was completed in November 1973. Request allowable be reinstated.

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name Hilburn	Well No. 1	Pool Name, Including Formation Shoe Bar, North, Strawn	Kind of Lease State, Federal or Fee Fee	Lease No.
Location Unit Letter E : 1980 Feet From The North Line and 660 Feet From The West Line of Section 13 Township 16S Range 35E , NMPM, Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ Texas-New Mexico Pipe Line Co.	Address (Give address to which approved copy of this form is to be sent) P. O. Box 1510, Midland, Texas 79701	
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐ Tipperary Corporation	Address (Give address to which approved copy of this form is to be sent) 500 W. Illinois, Midland Texas 79701	
If well produces oil or liquids, give location of tanks.	Unit E Sec. 13 Twp. 16 Rge. 35	In gas actually connected to be connected before producing well. Connection date estimated at 3-25-74.

If this production is commingled with that from any other lease or pool, give commingling order number: **CTB-249**

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well ☒	Gas Well ☐	New Well ☒	Workover ☐	Deepen ☐	Plug Back ☐	Same Res'v. ☒	Diff. Res'v. ☐
Date Spudded 8-2-73	Date Compl. Ready to Prod. 9-28-73		Total Depth 12,015'		P.B.T.D. 11,620'			
Elevations (DF, RKB, RT, GR, etc.) 3967 Gr	Name of Producing Formation Strawn		Top Oil/Gas Pay 11,288'		Tubing Depth 11,233'			
Perforations 11289'-94', 11302'-08', 11316'-20', 11324'-28', 11332'-56' (2JSPF)					Depth Casing Shoe 12,014'			
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
17 1/2"	13 3/8"		448'		450			
11"	8 5/8"		4798'		600			
7 7/8"	5 1/2"		12014'		900			
5 1/2"	2 7/8"		11233'					

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks 9-28-73	Date of Test 10-5-73	Producing Method (Flow, pump, gas lift, etc.) Flow	
Length of Test 18 hr.	Tubing Pressure 1245	Casing Pressure pkp	Choke Size 20/64"
Actual Prod. During Test 654	Oil-Bbls. 872	Water-Bbls. -----	Gas-MCF 1619

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-In)	Casing Pressure (Shut-In)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Michael P. Horton
 (Signature)

Production Engineer

March 6, 1974

(Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 19____

BY _____

TITLE _____

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT**

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

All distances must be from the outer boundaries of the Section.

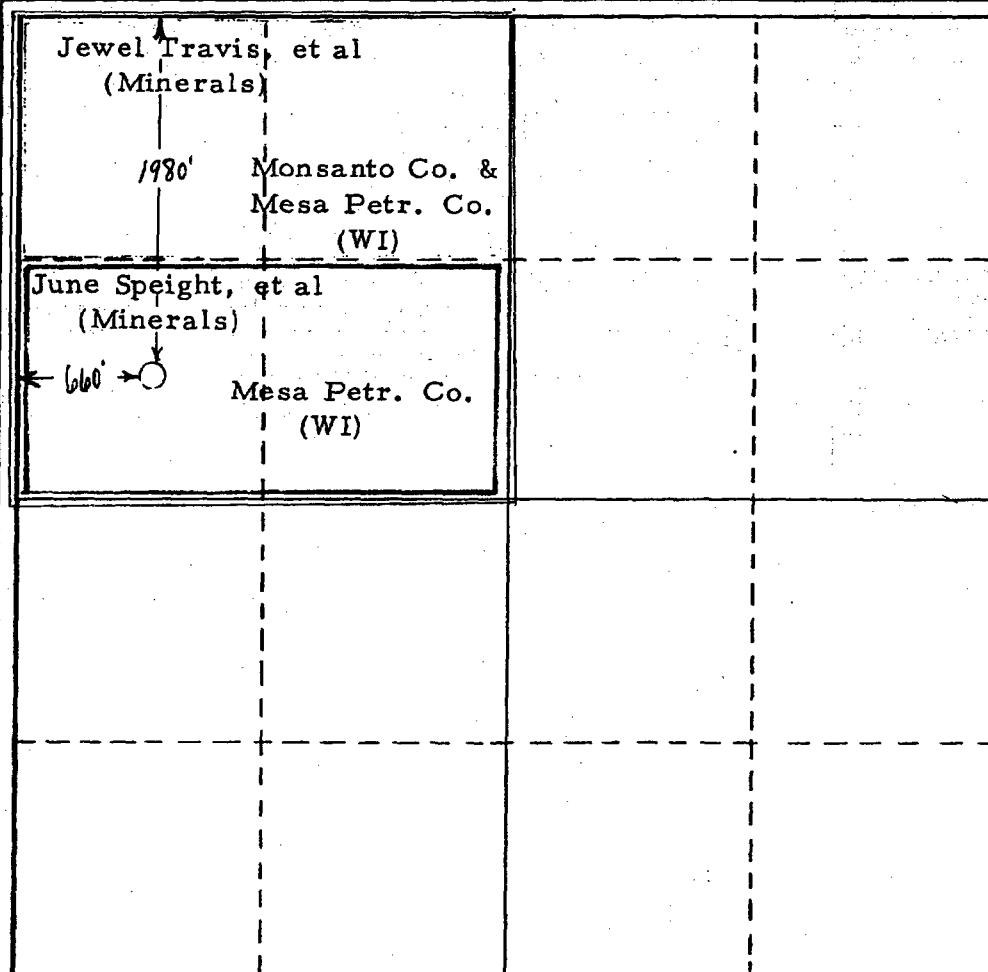
Operator Mesa Petroleum Co.			Lease Hilburn		Well No. 1
Unit Letter E	Section 13	Township 16S	Range 35E	County Lea Co., New Mex.	
Actual Footage Location of Well: 1980' feet from the North line and 660' feet from the West line					
Ground Level Elev. 3967'	Producing Formation Strawn		Pool North Shoebar Strawn		Dedicated Acreage: 160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Michael P. Houston

Name
Michael P. Houston

Position
Production Engineer

Company
Mesa Petroleum Co.

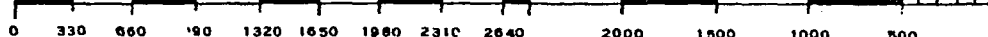
Date
November 27, 1973

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Registered Professional Engineer
and/or Land Surveyor

Certificate No.



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Form C-105
Revised 1-1-61

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease

State ☐ Fee ☒

5. State Oil & Gas Lease No.

10. TYPE OF WELL

OIL WELL ☐ GAS WELL ☐ DRY ☐ OTHER ☐

6. TYPE OF COMPLETION

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. REVR. ☐ OTHER ☐

7. Unit Agreement Name

8. Farm or Lease Name

Hilburn

9. Well No.

1

11. Field and Pool, or Wildcat

Wildcat

2. Name of Operator

Mesa Petroleum Co.

3. Address of Operator

Box 2009 Amarillo, Texas 79105

4. Location of Well

UNIT LETTER E LOCATED 1980 FEET FROM THE North 660 FEET FROM

THE West LINE OF SEC. 13 TWP. 16S RGE. 35E NMPM

12. County

Lea

15. Date Spudded 8-2-73

16. Date T.D. Reached 9-11-73

17. Date Compl. (Ready to Prod.) 9-28-73

18. Elevations (DF, R&B, RT, GL, etc.) GR 3967

19. Elev. Casinghead 3967

20. Total Depth 12,015

21. Plug Back T.D. 11,620

22. If Multiple Compl., How Many

23. Intervals Drilled by Rotary Tools All

Cable Tools -

24. Production Interval(s), of this completion - Top, Bottom, Name

11,289- 11,356- Strawn

25. Was Directional Survey Made No

26. Type Electric and Other Run

GR-SNP, ML, DIL

27. Was Well Cased No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT CEMENT
13 3/8"	48	448	17 1/2"	450 ss. Class H & 2% cc	-
8 5/8"	36	4798	11"	400 Lb. A & 200 "C" w/2% cc	-
5 1/2"	17 & 20	12,014	7 7/8"	900 ss. 50-50 pox. 8% salt	-
				2% gel, 3/4 of 1% CFR-2	-

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2 7/8	11,233	11,233

31. Perforation Record (Interval, size and name)

11,700'-706' & 11,865'-870' (Morrow) 0.32" dia.	2 JSPF
11,289-294' 11,332-356'	
11,302-308' -Strawn 0.32" diameter-2	JSPF
11,316-320'	
11,324-328'	

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
11,700-870'	A/1500 gal. 7 1/2% & 20 ball
11,289-356'	Perf'd in 200 gals. 15% mud
11,289-356'	A/5000 gal 15% & 70 ball seal

33. PRODUCTION

Date First Production 9-28-73

Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing

Well Status (Prod. or Shut-in) Prod.

Date of Test	Hours Tested	Choke Size	Prod'n. Per Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Grav. Sol. Bbl.
10-5-73	18	20/64"		654	1214	-	1857

Flow Tubing (1 inch)	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Grav. Sol. Bbl.
12-15	zero-p.s.f.		872	1619	-	44.2

34. Type of Cement (Solid, used for, cemented, etc.)

Vented

35. List of Attachments

Electric & Radioactive Logs, DST's on Wolfcamp & Strawn

I, Thereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Michael P. Houston TITLE Production DATE 10-8-73

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn <u>11,275</u>	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt _____	T. Atoka <u>11,388</u>	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates <u>3134</u>	T. Miss <u>11,942</u>	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen <u>3993</u>	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres <u>4754</u>	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta <u>6282</u>	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddeock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb <u>7515</u>	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo <u>8206</u>	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp <u>9566</u>	T. 3 Bros. <u>10,287</u>	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1630	1630	Surface Sands				
1630	1950	320	Red Bed				
1950	4720	2770	Anhydrite, Salt, Gyp				
4720	7350	2630	Dolomite, Anhydrite				
7350	10110	2760	Lime & Shale				
10110	10380	270	Dolomite, Lime & Shale				
10380	10470	90	Wolfcamp Development				
10470	11275	805	Shale & Lime				
11275	11400	125	Strawn Development				
11400	11698	298	Shale, Lime				
11698	11890	192	Morrow Sand & Shale				
11890	12015	125	Shale				

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NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-105
Effective 1-1-65

I. OPERATOR
Mesa Petroleum Co.
Address: Box 2009 Amarillo, Texas 79105
Reason(s) for filing (check proper box)
New Well ☒ Change in Transporter of: Oil ☐ Dry Gas ☐
Recompletion ☐ Casinghead Gas ☐ Condensate ☐
Change in Ownership ☐
Other (Please explain): CASINGHEAD GAS MUST NOT BE PLACED AFTER 12/1/73 UNLESS AN EXCEPTION TO B-4870 IS OBTAINED
If change of ownership give name and address of previous owner

II. DESCRIPTION OF WELL AND LEASE
Lease Name: Hilburn Well No.: 1 Pool Name, including Formation: North Shore Bar-Strawn Wildcat (Strawn) R-4658 Kind of Lease: State, Federal or Fee Fee
Location: Unit Letter: E 1980 Feet From The North Line and 660 Feet From The West
Line of Section: 13 Township: 16S Range: 35E NMPM, Lea County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS
Name of Authorized Transporter of Oil ☒ or Condensate ☐ The Permian Corporation Address (Give address to which approved copy of this form is to be sent): P O Box 1183 Houston, Texas 77001
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐ None Address (Give address to which approved copy of this form is to be sent):
If well produces oil or liquids, give location of tanks: Unit: E Sec: 13 Twp: 16S Rge: 35E Is gas actually connected? No When:

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA
Designate Type of Completion - (X) Oil Well ☒ Gas Well ☐ New Well ☒ Workover ☐ Deepen ☐ Plug Back ☒ Same Res'v. ☐ Diff. Res'v. ☐
Date Spudded: 8-2-73 Date Compl. Ready to Prod.: 9-28-73 Total Depth: 12,015' P.B.T.D.: 11,620'
Pool: Wildcat Name of Producing Formation: Strawn Top Oil/Gas Pay: 11,288' Tubing Depth: 11,233'
Perforations: 11,289-294', 11,302'-308', 11,316-320', 11,324'-328', 11,332'-356' (2JSPF) 12,014'
TUBING, CASING, AND CEMENTING RECORD
HOLE SIZE: 17 1/2" 11" 7 7/8" CASING & TUBING SIZE: 13 3/8" 8 5/8" 5 1/2" DEPTH SET: 448' 4798' 12014' SACKS CEMENT: 450 600 900

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top all tests taken on the well in accordance with RULE 111.)
Date First New Oil Run To Tanks: 9-28-73 Date of Test: 9-29-73 Producing Method (Flow, pump, gas lift, etc.): Flow
Length of Test: 6 hrs. Tubing Pressure: 1100 psig Casing Pressure: - Choke Size: 16/64
Actual Prod. During Test: 104 Oil-Bbls.: 416 Water-Bbls.: - Gas-MCF: 823

GAS WELL
Actual Prod. Test-MCF/D: Length of Test: Bbls. Condensate/L.M.CF: Gravity of Condensate:
Testing Method (pilot, back pr.): Tubing Pressure: Casing Pressure: Choke Size:

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Michael P. Houston
(Signature)
Production Engineer
(Title)
October 1, 1973
(Date)

OIL CONSERVATION COMMISSION
APPROVED: 1973
BY: John R. Runyan
TITLE: Asst

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out Sections I, II, III, and VI only for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiple completed wells.

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease	
State ☐	Fee ☒
5. State Oil & Gas Lease No.	

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEPLEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐		7. Unit Agreement Name
2. Name of Operator Mesa Petroleum Co.		8. Farm or Lease Name Hilburn
3. Address of Operator Box 2009 Amarillo, Texas		9. Well No. 1
4. Location of Well UNIT LETTER <u>E</u> 1980 FEET FROM THE <u>North</u> LINE AND 660 FEET FROM THE <u>West</u> LINE, SECTION <u>13</u> TOWNSHIP <u>16S</u> RANGE <u>35E</u> NMPM.		10. Field and Pool, or Wildcat North Shoe Bar-Wolf-camp-Undesign. Morrow
15. Elevation (Show whether DF, RT, GR, etc.) 3967 GL		12. County Lea Co.,

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	COMMENCE DRILLING OPNS. ☐
PULL OR ALTER CASING ☐	CASING TEST AND CEMENT JOBS ☐
OTHER ☐	OTHER ☒ Perf. Morrow, test, treat and abandon
PLUG AND ABANDON ☐	ALTERING CASING ☐
CHANGE PLANS ☐	PLUG AND ABANDONMENT ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

The drilling rig was released September 14, 1973 and a completion unit moved in on September 20, 1973. After running cement bond logs and then running tubing and packer, the Morrow zone was perforated in 250 gallons of 10% acetic acid. Morrow perms were 11,700'-706' and 11,865'-870'. After acidizing with an additional 1500 gals. of 7 1/2% acid, fluid was swabbed down to 11,600' with hardly a show of gas. Further stimulation was not warranted. Morrow was plugged and abandoned by setting a cast iron bridge plug at 11,650' and dumping 30 feet of cement on top of same.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED Michael P. Houston TITLE Production Engineer DATE Sept. 27, 1973

APPROVED BY Lester A. Cloward TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

3a. Indicate Type of Lease	
State ☐	Fee ☒
3. State Oil & Gas Lease No.	

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE APPLICATION FOR PERMIT - (FORM C-101) FOR SUCH PROPOSALS.)

1. ☒ OIL WELL ☒ GAS WELL ☐ OTHER	7. Well Agreement Name
2. Name of Operator Mesa Petroleum Co.	8. Farm or Lease Name Hilburn
3. Address of Operator P. O. Box 2009, Amarillo, Texas 79105	9. Well No. 1
4. Location of Well UNIT LETTER <u>E</u> <u>1980</u> FEET FROM THE <u>N</u> LINE AND <u>660</u> FEET FROM THE <u>W</u> LINE, SECTION <u>13</u> TOWNSHIP <u>16S</u> RANGE <u>35E</u> NMPM.	10. Field and Pool, or Wellbore North Shoe Bar-Wolfcamp Undesignated Morrow
15. Elevation (Show whether DF, RT, GR, etc.) 3967' GL	12. County Lea

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐
PULL OR ALTER CASING ☐	OTHER ☐

SUBSEQUENT REPORT OF:	
REMEDIAL WORK ☐	ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐	PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOBS ☒ *	OTHER ☐

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Well spudded @ 12:00 noon, 8-2-73.

Drld. to 4800' on 8-10-73 & ran 4784.31' of 8-5/8" csg., set @ 4798.35'.

Cmt'd. w/400 sx. HOWCO LITE & 200 sx. Class C w/2% cc. Top of cmt. 3200'.

Tested csg. to 1500 psi - 30 mins. Held okay. WOC 22 hrs.

Drld. to TD 12,015' on 9-11-73. On 9-13-73, ran 12,032.47' of 5 1/2" csg., set @ 12,014.47'. Cmt'd. w/900 sx. 50-50 Pozmix, 8# salt/sk., 2% gel, 3/4 of 1% CFR-2.

Plug dn. @ 10:15 PM, 9-13-73. On 9-20-73, tested csg. to 3000 psi - 30 mins.

Held okay. WOC 7 days. Top of cmt. 7600'.

* 8-5/8" & 5 1/2" csg.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED <u>[Signature]</u>	TITLE <u>Operations Superintendent</u>	DATE <u>Sept. 18, 1973</u>
APPROVED BY <u>[Signature]</u>	TITLE <u></u>	DATE <u></u>
CONDITION OF APPROVAL, IF ANY:		

New Mexico Oil & Gas Commission
P. O. Box 1980
Hobbs, New Mexico 88240

Gentlemen:

We submit the following deviation surveys for your information:

Field Name Wildcat County Lea State New Mexico
Operator Mesa Petroleum Co. Address P.O. Box 2009 City Amarillo, Texas
Lease Name Hilburn Well No. 1 Section 13 Block _____
Township 16-S Range 35-E

Depth(feet)	Inclination(degrees)	Displacement(feet)	Accumulative Displacement(feet)
448	1	7.82	7.82
945	3/4	6.50	14.32
1440	3/4	6.48	20.80
1902	1	8.06	28.86
2476	1 1/4	12.52	41.38
2957	1	8.39	49.77
3543	3/4	7.67	57.44
4020	3/4	6.24	63.68
4502	1/2	4.21	67.89
4800	1/4	1.30	69.19
5297	1/4	2.17	71.36
5431	1/2	1.17	72.53
5924	1/2	4.30	76.83
6422	3/4	6.52	83.35
6920	3/4	6.52	89.87
7396	1/2	4.15	94.02
7883	1/2	4.25	98.27
8353	1/2	4.10	102.37
8849	3/4	6.49	108.86
9159	1/2	2.71	111.57
9652	3/4	6.45	118.02
10144	1/2	4.29	122.31
10495	1/2	3.06	125.37
10956	3/4	6.03	131.40
11350	1/2	3.44	134.84
12015	1/2	5.80	140.64

Total Displacement 140.64

Survey was run in drill pipe.

Certification of Personal Knowledge Inclination Data:

I hereby certify that I have personal knowledge of the data and facts on this form and that such information given above is true and complete.

C. M. Anderson
C. M. Anderson, Manager

ROBINSON BROS. DRILLING CO.

Sworn and Subscribed to me this the 14th day of September 1973.

My Commission expires 6-1-75.

P. B. Zellmer
P. B. Zellmer, Notary in and for
Midland County, Texas

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease
STATE ☐ FEE ☒

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL ☒ DEEPEN ☐ PLUG BACK ☐		7. Unit Agreement Name -----
b. Type of Well OIL WELL ☒ GAS WELL ☒ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☒		8. Farm or Lease Name Hilburn
2. Name of Operator Mesa Petroleum Co.		9. Well No. 1
3. Address of Operator Box 2009, Amarillo, Texas 79105		10. Field and Pool, or Wildcat North Shoe Bar-Wolfcamp Undesignated Morrow
4. Location of Well UNIT LETTER <u>E</u> LOCATED <u>1980</u> FEET FROM THE <u>N</u> LINE AND <u>660</u> FEET FROM THE <u>W</u> LINE OF SEC. <u>13</u> TWP. <u>16S</u> RGE. <u>35E</u> NMPM		12. County Lea
19. Proposed Depth 12,020'		19A. Formation Wolfcamp-Morrow
20. Rotary or C.T. Rotary		21. Elevations (Show whether DF, RT, etc.) 3967' GL
21A. Kind & Status Plug. Bond Blanket		21B. Drilling Contractor Unknown
22. Approx. Date Work will start 7-27-73		

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17 1/2"	13 3/8"	48#-H-40	430'	suff. to circ	to surf.
11"	8 5/8"	24-28	4800'	to be determined	3000'
7 7/8"	4 1/2"-5 1/2"	to be determined	to be determined	to be determined at TD	sufficient to cover producing zones

B.O.P. series 900 to TD

Use mud additives as required for control

APPROVAL VALID
FOR 90 DAYS UNLESS
DRILLING COMMENCED,

EXPIRES 10/10/73

ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTION ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed [Signature] Title Operations Sup't. Date July 10, 1973

(This space for State Use)

APPROVED BY [Signature] TITLE _____ DATE _____

REASONS OF APPROVAL, IF ANY:

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PL**

Form C-102
Supersedes C-128
Effective 1-1-85

All distances must be from the outer boundaries of the Section.

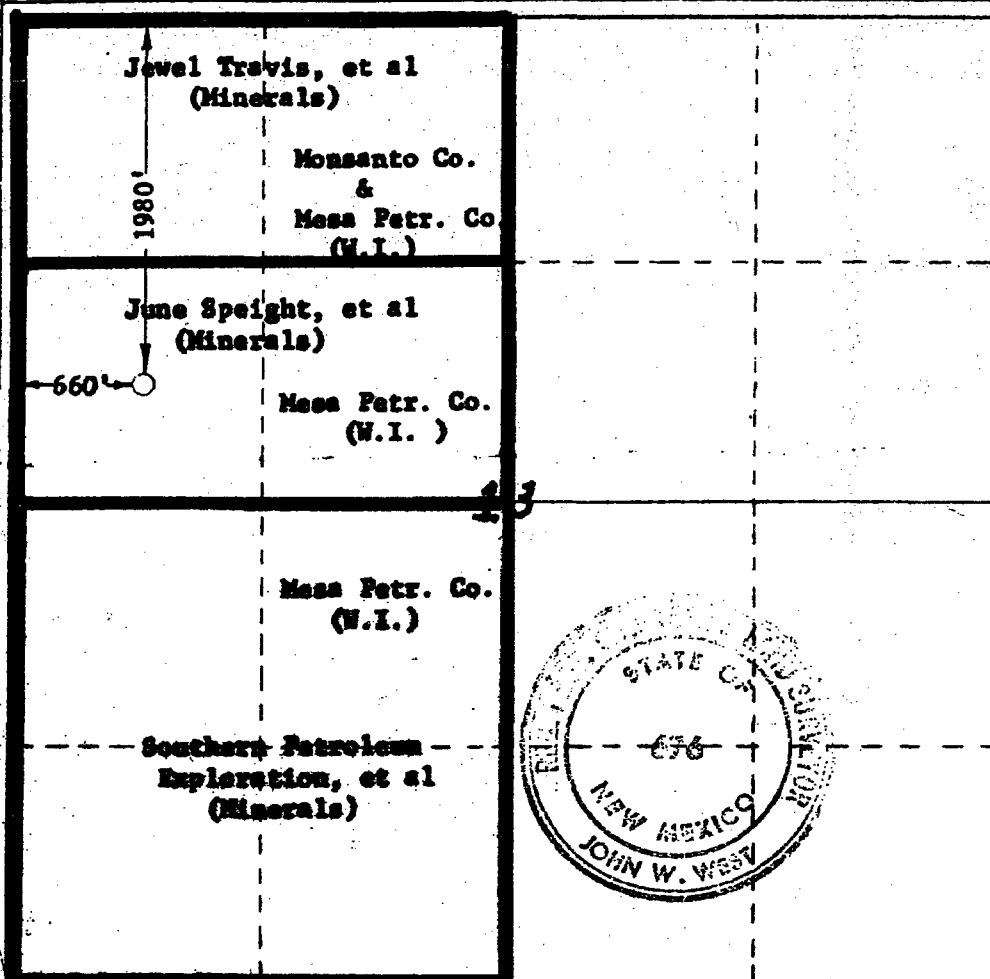
Operator MESA PETROLEUM CO.			Lease HILBURN		Well No. 1
Unit Letter E	Section 13	Township 16 SOUTH	Range 35 EAST	County LEA	
Actual Footage Location of Well: 660 feet from the EAST line and 1980 feet from the NORTH line					
Ground Level Elev. 3967'	Producing Formation Morrow		Pool Undesignated Morrow	Dedicated Acreage: 320 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.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

[Signature] **J. L. Farrell**

Operations Superintendent

Mesa Petroleum Co.

June 12, 1973

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

JUNE 5, 1973

Registered Professional Engineer and/or Land Surveyor

[Signature]
Certificate No. **676**

IP (Strawn) Perfs 11,289-11,356' F 1416 BOPD. Pot based on
24 hr test thru 26/64" chk. GOR 1836; Grav 44; FTP 1200#

CONTR	Robinson Bros	QPRS ELEV	3367'	GL	PD	12,020'	TYPE	RT
-------	---------------	-----------	-------	----	----	---------	------	----

F.R. 7-23-73
(Wollicamp-Morrow)
8-6-73 Drlg 3542'
8-13-73 Drlg 5250'
8-20-73 Drlg 7525'
8-27-73 Drlg 9600'
9-4-73 Drlg 10,900'
DSE 10,403-495', open 1 hr 30 mins, GIS
in 5 mins, rev out 20 BO (Grav 44), 1 hr
ISIP 3958#, FP 190-425#, 4 hr 30 min
FSIP 3958#, HP 4780-4780#
9-17-73 ID 12,015'; Rng Logs
DSE 11,295-350', open 1 hr 30 mins,

CMD : ONGARD 10/05/04 15:37:57
OG6C101 C101-APPLICATION FOR PERMIT TO DRILL OGOMES -TPQE

OGRID Idn : 147179 API Well No: 30 25 35596 APD Status(A/C/P) : A
Opr Name, Addr: CHESAPEAKE OPERATING, INC. Aprvl/Cncl Date : 03-01-2004
P. O. BOX 18496
OKLAHOMA CITY, OK 73154-0496

Prop Idn: 33688 HILBURN Well No: 3

U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn	: D	13	16S	35E		FTG 510 F N	FTG 250 F W
OCD U/L	: D	API	County	: 25			

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C) : O Cable/Rotary (C/R) : R
Lease typ(F/S/P/N/J/U/I) : P Ground Level Elevation : 3968

State Lease No: Multiple Comp (S/M/C) : S
Prpsd Depth : 11500 Prpsd Frmtn : STRAWN

E0009: Enter data to modify record
PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM
PF07 PF08 PF09 PRINT PF10 C102 PF11 HISTORY PF12

[HOME](#) | [PETROLEUM DATA](#) | [NEWS](#) | [MARKETPLACE](#) | [SOFTWARE](#) | [SPONSORS](#) | [LINKS](#) | [CONTACT](#)[PTTC](#)
[PRRC](#)
[NM-TECH](#)
[NMBGMR](#)

NYMEX LS Crude	\$49.91
Navajo WTXI	\$46.75
Henry Hub	\$6.73

Updated 10/5/2004

[GENERAL](#) | [COUNTY](#) | [OPERATOR](#) | [POOL](#) | [LOCATION](#) | [OCD LOG & WELL FILES](#)

View Production Data

No data for this well.

Well:HILBURN **No.:** 003

Operator: CHESAPEAKE OPERATING, INC.

API: 3002535596 **Township:** 16.0S **Range:** 35E

Section: 13 **Unit:** D

Land Type: P **County:** Lea **Total Acreage:**

Number of Completion with Acreage:

Page last updated 07/22/2004. Webmaster gotech@prrc.nmt.edu

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-104A
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 copy of the final affected wells
list along with 1 copy of this form per
number of wells on that list to appropriate
District Office

Change of Operator

Previous Operator Information:

OGRID: 025797
Name: Permian Resources, Inc.
Address: P.O. Box 590
Address: _____
City, State, Zip: Midland, TX 79702-0590

New Operator Information:

Effective Date: March 1, 2004
New Ogrid: 147179
New Name: Chesapeake Operating, Inc.
Address: P.O. Box 18496
Address: _____
City, State, Zip: Oklahoma City, OK 73154-0496

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the attached list of wells is true and complete to the best of my knowledge and belief.

New Operator

Signature: Douglas Jacobson

Printed name: Douglas Jacobson

Title: Sr. Vice President

E-mail: _____

Address: _____

Date: 04/01/04 Phone: (405) 848-8000



Previous operator complete below:

Previous

Operator: PERMIAN RESOURCES, INC.

Previous

OGRID: 025797

Signature: Robert H. Marshall

Printed

Name: ROBERT H. MARSHALL

E-mail: _____

Address: _____

NMOCD Approval

Signature: Paul F. Kuntz

Printed

Name: PAUL F. KUNTZ

District: PETROLEUM ENGINEER

Date: APR 08 2004

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised March 25, 1999

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-35596
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator Permian Resources, Inc. OGRID 25797		6. State Oil & Gas Lease No.
3. Address of Operator 608 N. Main, Midland, Texas 79701		7. Lease Name or Unit Agreement Name: Hilburn
4. Well Location Surface D 510' North 250' West BHL Unit Letter C: 420 feet from the North line and 1210' feet from the West line Section 13 Township 16S Range 35E NMPM Lea County		8. Well No. 3
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 3968 GR		9. Pool name or Wildcat: North Shoe Bar (Strawn) (Wolfcamp)

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☒ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐
OTHER: Plug Back and Temporarily Abandon ☐

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

Permian Resources, Inc. set the following plugs in subject well and respectfully request Temporarily Abandon Status for further geological and engineering evaluation.

- 1-11-02 Received Plugging Recommendation from Paul Kautz with Hobbs District Office.
- 1-12-02 Set 1st Plug @11,565-11,465', cemented w/50 sxs CI H Neat.
Set 2nd Plug @9753-9653', cemented w/50 sxs CI H Neat.
- 1-13-02 NU BOP, installed capping flange on wellhead.

This Approval of Temporary
Abandonment Expires

FEB 2002

RECEIVED
FEB 2002

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Barbara Watson TITLE Regulatory Compliance DATE 01/15/2002

Type or print name Barbara Watson

Telephone No. 915/685-0113

(This space for State use)

ORIGINAL SIGNED BY
PAUL F. KAUTZ
PETROLEUM ENGINEER

FEB 05 2002

APPROVED BY Denied Before this well can be TH it must meet requirements of R.R. 702 TITLE PETROLEUM ENGINEER DATE FEB 05 2002
Conditions of approval, if any:

Submit 3 Copies To Appropriate District Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-103

Revised March 25, 1999

WELL API NO.

30-025-35596

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name:

Hilburn

8. Well No. 3

9. Pool name or Wildcat

North Shoe Bar (Strawn) (Wolfcamp)

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator

Permian Resources, Inc. OGRID 25797

3. Address of Operator

608 N. Main, Midland, Texas 79701

4. Well Location

Surface D 510' North 250' West
BHL Unit Letter C: 420 feet from the North line and 1210' feet from the West line

Section 13

Township 16S

Range 35E

NMPM Lea County

10. Elevation (Show whether DR, RKB, RT, GR, etc.)

3968 GR

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: Plug back and amend entry point ☐

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

Please find attached detailed intention of plugback.

Permian Resources, Inc. will follow this C-103 with a hard copy along with attachments.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Mike Stewart TITLE Engineer DATE 12/21/2001

Type or print name Mike Stewart

(This space for State use)

Telephone No. 915/685-0113

APPROVED BY PAUL F. KAUF TITLE ENGINEER DATE 12/21/2001

Conditions of approval, if any:

may not produce until NSL approved

Permian Resources, Inc

Hilburn No. 3

North Shoe Bar (Strawn) Pool

Attachment to C-103 Dated 12/21/01

12-20-01 Reached TD @11626' MD, 11584' TVD at BHL 675'FNL & 599' FWL. Encountered Strawn formation top @11,340' MD, 11307' TVD at BHL 664'FNL & 518' FWL, Sec.13,T16S, R35E. Ran Dual Induction log, Z-densilog and neutron w/GR from TD. Strawn porosity limited.

Proposed: PB w/50 sx Class "H", 15.6 ppg, plug from 11358' to 11225'. Spot 270 sx Class "H", 18 ppg, plug from 9700' to 9200'. WOC & dress off top of plug to KOP @9450'. Drill directionally to new "Non-standard" BHL to encounter Strawn formation @11506' MD, 11269' TVD at 420' FNL & 1210' FWL, Sec.13, T16S, R35E, Lea Co., NM. Upon evaluating Strawn formation at proposed new Strawn entry point, a decision will be made to run 5 1/2" production casing to above Strawn and drill horizontally to a BHL of 410'FNL & 1296' FWL, Sec.12, T16S, R35E.

Permian Resources has received verbal and /or written approval from all offsetting SW/4 Sec.12, T16S, R35E leasehold owners and non-leased mineral owners waiving any objection to the above detailed proposed Strawn entry point BHL and horizontal section BHL. Permian will provide copies of executed waivers allowing for administrative approval of the "Non-standard" location prior to producing the well.

Attached are well profiles and surveys of the original directional section (as drilled) and the proposed new directional section.

Permian Resources, Inc. will follow this C-103 with a hard copy along with attachments.

19-Dec-2001

BAKER HUGHES INTEQ
 MINIMUM CURVATURE SURVEY CALCULATIONS
 DIRDRIL Version 3.2
 For
 TIMBER SHARP DRILLING
 HILBURN #3
 UNITS in FEET

MEASURED DEPTH	DIRECTION DRIFT	AZIMUTH	QUADRANT	TVD	VERTICAL SECTION	DLS	NORTH SOUTH	EAST WEST
10781.00	14.20	125.10	S54.90E	10769.65	163.29	2.65	81.73S	141.36E
10813.00	14.70	125.80	S54.20E	10800.64	171.24	1.66	86.37S	147.87E
10844.00	15.10	127.50	S52.50E	10830.60	179.15	1.91	91.12S	154.26E
10876.00	15.40	128.90	S51.10E	10861.47	187.48	1.48	96.33S	160.87E
10907.00	15.60	130.40	S49.60E	10891.34	195.65	1.45	101.62S	167.25E
10939.00	15.70	128.90	S51.10E	10922.16	204.16	1.30	107.12S	173.90E
10978.00	16.30	131.10	S48.90E	10959.65	214.74	2.19	114.04S	182.13E
11010.00	16.10	129.70	S50.30E	10990.38	223.52	1.37	119.82S	188.93E
11041.00	16.00	126.10	S53.90E	11020.17	232.01	3.23	125.08S	195.69E
11072.00	16.30	122.60	S57.40E	11049.95	240.60	3.29	129.95S	202.80E
11104.00	16.30	121.20	S58.80E	11080.66	249.58	1.23	134.69S	210.43E
11136.00	16.70	117.70	S62.30E	11111.34	258.66	3.35	139.16S	218.34E
11167.00	16.30	113.80	S66.20E	11141.07	267.44	3.80	142.98S	226.26E
11199.00	15.90	110.30	S69.70E	11171.81	276.22	3.28	146.31S	234.48E
11231.00	15.90	106.80	S73.20E	11202.59	284.81	3.00	149.10S	242.79E
11262.00	15.80	104.00	S76.00E	11232.41	293.00	2.49	151.35S	250.95E
11294.00	16.40	99.90	S80.10E	11263.16	301.43	4.02	153.18S	259.63E
11325.00	16.00	97.70	S82.30E	11292.93	309.50	2.36	154.51S	268.17E
11357.00	15.90	95.90	S84.10E	11323.69	317.58	1.58	155.55S	276.90E
11388.00	15.90	96.30	S83.70E	11353.51	325.35	0.35	156.45S	285.35E
11419.00	16.08	96.70	S83.30E	11383.31	333.18	0.68	157.42S	293.83E
11451.00	16.00	96.30	S83.70E	11414.06	341.29	0.43	158.42S	302.62E
11482.00	15.80	95.90	S84.10E	11443.88	349.05	0.74	159.32S	311.06E
11514.00	15.90	95.90	S84.10E	11474.66	357.03	0.31	160.22S	319.76E
11545.00	15.50	96.70	S83.30E	11504.50	364.72	1.47	161.14S	328.09E
11577.00	15.00	98.80	S81.20E	11535.38	372.51	2.33	162.27S	336.43E
*11627.00	14.26	102.37	S77.63E	11583.76	384.41	2.33	164.58S	348.84E

BOTTOM HOLE LOCATION

Closure Distance 385.72 Feet
 Closure Direction S64.74E
 Closure Azimuth 115.26°

Page 1

VERTICAL SECTION CALCULATED ON PLANE OF 119.98 °

(*) DENOTES EXTRAPOLATED OR INTERPOLATED STATION - NOT AN ACTUAL SURVEY

True Vertical Depths are reference rotary table.

Baker Hughes INTEQ ---



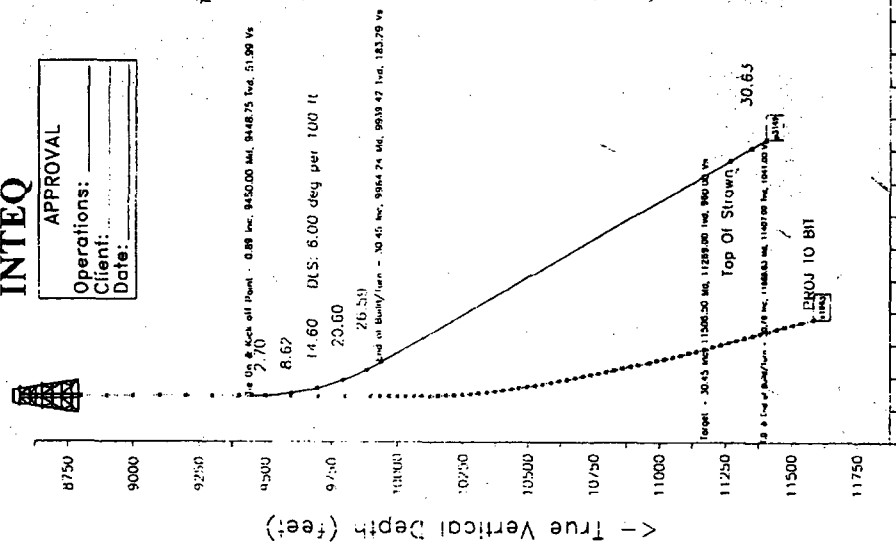
Dec 20, 2001

INTEQ

APPROVAL

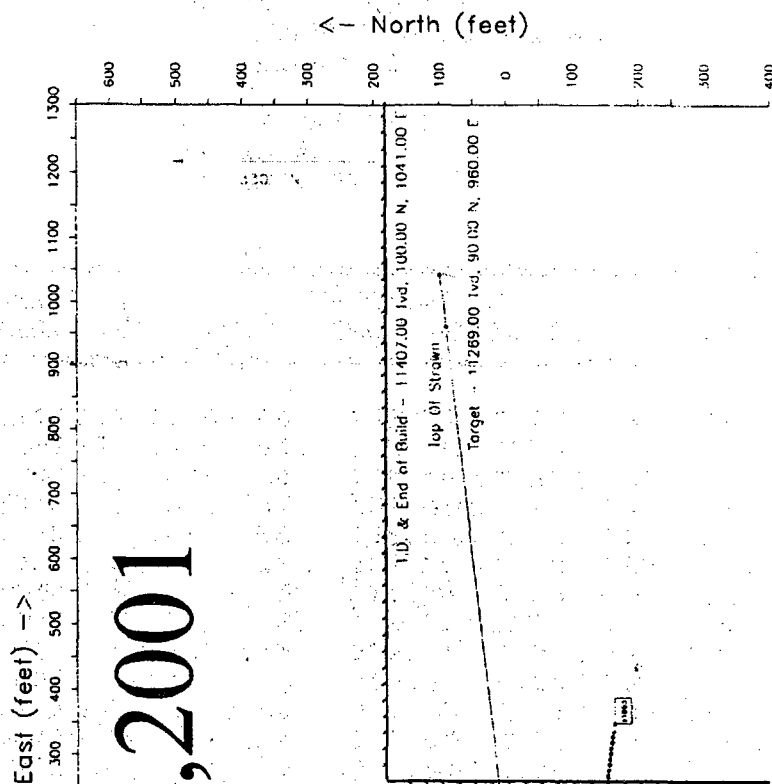
Operations:

Client:



Vertical Section (feet) ->

Azimuth 90.00 with reference 0.00 N. 0.00 W from slot #1



TMBR/SHARP DRILLING INC.

Structure : HILBURN #3

Slot : slot #1

Field :

Location : LEA COUNTY, NEW MEXICO

WELL PROFILE DATA

Point	MO	Inc	Dr	IWO	Mo-In	Cost	V. Spcl	Deg/100
KOP	9450.00	0.89	200.04	9448.75	-7.63	51.99	51.03	0.00
End of Build/Turn	9964.24	30.45	83.63	9939.42	3.31	183.29	182.78	6.00
Target Top Of Screen	11506.50	30.45	83.63	11269.00	90.00	960.00	964.71	0.00
End of Build/Turn	11866.83	30.76	87.30	11407.00	100.00	1041.00	1045.79	0.47

TMBR/SHARP DRILLING INC.
HILBURN #3

slot #1

LEA COUNTY, NEW MEXICO

PROPOSAL LISTING

by
Baker Hughes INTEQ

Your ref : Pilot Plan Dec20
Our ref : prop3149
License :

Date printed : 21-Dec-2001
Date created : 19-Dec-2001
Last revised : 20-Dec-2001

Field is centred on n32 58 13.000,w103 14 15
Structure is centred on n32 58 13.000,w103 14 15

Slot location is n32 58 13.000,w103 14 15.000
Slot Grid coordinates are N 718448.687, E 836085.155
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001). Spheroid: Clarke - 1866

Reference North is Grid North

TMBR/SHARP DRILLING INC.
HILBURN #3, slot #1
LEA COUNTY, NEW MEXICO

PROPOSAL LISTING Page 1
Your ref : Pilot Plan Dec20
Last revised : 20-Dec-2001

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
9450.00	0.89	200.04	9448.75	7.63S	51.99E	0.00	51.03	836137.15	718441.06
9500.00	2.70	99.31	9498.73	8.19S	53.02E	6.00	52.00	836138.18	718440.50
9600.00	8.62	87.52	9598.20	8.25S	62.84E	6.00	61.77	836148.00	718440.44
9700.00	14.60	85.32	9696.11	6.89S	82.91E	6.00	81.88	836168.07	718441.79
9800.00	20.60	84.39	9791.39	4.14S	113.01E	6.00	112.10	836198.17	718444.54
9900.00	26.59	83.87	9882.98	0.03S	152.81E	6.00	152.11	836237.96	718448.66
9964.24	30.45	83.63	9939.42	3.31N	183.29E	6.00	182.78	836268.45	718452.00
10000.00	30.45	83.63	9970.25	5.32N	201.30E	0.00	200.90	836286.46	718454.01
10500.00	30.45	83.63	10401.30	33.43N	453.11E	0.00	454.23	836538.26	718482.11
11000.00	30.45	83.63	10832.34	61.53N	704.92E	0.00	707.57	836790.07	718510.22
11500.00	30.45	83.63	11263.39	89.63N	956.72E	0.00	960.91	837041.88	718538.32
11506.50	30.45	83.63	11269.00	90.00N	960.00E	0.00	964.21	837045.15	718538.69
11600.00	30.63	82.85	11349.53	95.59N	1007.17E	0.47	1011.70	837092.33	718544.28
11666.83	30.76	82.30	11407.00	100.00N	1041.00E	0.47	1045.79	837126.15	718548.69

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1045.79 on azimuth 84.51 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

TMBR/SHARP DRILLING INC.
HILBURN #3, slot #1
LEA COUNTY, NEW MEXICO

PROPOSAL LISTING Page 2
Your ref : Pilot Plan Dec20
Last revised : 20-Dec-2001

Comments in wellpath

MD	TVD	Rectangular Coords.	Comment
11506.50	11269.00	90.00N 960.00E	Top Of Strawn

Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates	Revised
Top Of Strawn		11269.00	90.00N 960.00E	20-Dec-2001

Created by: HILBURN

North Arrow: 21.000000

Scale: 1 inch = 100 feet

Units: Feet

Vertical Datum: Mean Sea Level

Horizontal Datum: NAD 83

--- Baker Hughes INTEQ ---



Dec 20, 2001

INTEQ

APPROVAL

Operations:

Client:

Date:



Structure: HILBURN #3

Location: LEA COUNTY, NEW MEXICO

Slot: slot #1

Field:

Well Profile Data

Vertical Section (feet) -->

Azimuth 90.00 with reference 0.00 N, 0.00 W from slot #1

Top of Structure

Top of Structure

Top of Structure

Top of Structure

Top of Structure

Top of Structure

Top of Structure

Top of Structure

Top of Structure

Top of Structure

Top of Structure

Top of Structure

Top of Structure

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Top of Structure

Top of Structure

Top of Structure

TMBR/SHARP DRILLING INC.
HILBURN #3

slot #1

LEA COUNTY, NEW MEXICO

PROPOSAL LISTING

by
Baker Hughes INTEQ

Your ref : Pilot Plan Dec20
Our ref : prop3149
License :

Date printed : 21-Dec-2001
Date created : 19-Dec-2001
Last revised : 20-Dec-2001

Field is centred on n32 58 13.000.w103 14 15
Structure is centred on n32 58 13.000.w103 14 15

Slot location is n32 58 13.000.w103 14 15.000
Slot Grid coordinates are N 718448.687, E 836085.155
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is Grid North

TMBR/SHARP DRILLING INC.
HILBURN #3, slot #1
LEA COUNTY, NEW MEXICO

PROPOSAL LISTING Page 1
Your ref : Pilot Plan Dec20
Last revised : 20-Dec-2001

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting Northing	
9450.00	0.89	200.04	9448.75	7.63S	51.99E	0.00	51.03	836137.15	718441.06
9500.00	2.70	99.31	9498.73	8.19S	53.02E	6.00	52.00	836138.18	718440.50
9600.00	8.62	87.52	9598.20	8.25S	62.84E	6.00	61.77	836148.00	718440.44
9700.00	14.60	85.32	9696.11	6.89S	82.91E	6.00	81.88	836168.07	718441.79
9800.00	20.60	84.39	9791.39	4.14S	113.01E	6.00	112.10	836198.17	718444.54
9900.00	26.59	83.87	9882.98	0.03S	152.81E	6.00	152.11	836237.96	718448.66
9964.24	30.45	83.63	9939.42	3.31N	183.29E	6.00	182.78	836268.45	718452.00
10000.00	30.45	83.63	9970.25	5.32N	201.30E	0.00	200.90	836286.46	718454.01
10500.00	30.45	83.63	10401.30	33.43N	453.11E	0.00	454.23	836538.26	718482.11
11000.00	30.45	83.63	10832.34	61.53N	704.92E	0.00	707.57	836790.07	718510.22
11500.00	30.45	83.63	11263.39	89.63N	956.72E	0.00	960.91	837041.88	718538.32
11506.50	30.45	83.63	11269.00	90.00N	960.00E	0.00	964.21	837045.15	718538.69
11600.00	30.63	82.85	11349.53	95.59N	1007.17E	0.47	1011.70	837092.33	718544.28
11666.83	30.76	82.30	11407.00	100.00N	1041.00E	0.47	1045.79	837126.15	718548.69

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 1045.79 on azimuth 84.51 degrees from wellhead.
Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

TMBR/SHARP DRILLING INC.
HILBURN #3, slot #1
LEA COUNTY, NEW MEXICO

PROPOSAL LISTING Page 2
Your ref : Pilot Plan Dec20
Last revised : 20-Dec-2001

Comments in wellpath

MD	TVD	Rectangular Coords.	Comment
11506.50	11269.00	90.00N 960.00E	Top Of Strawn

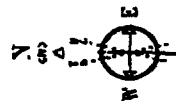
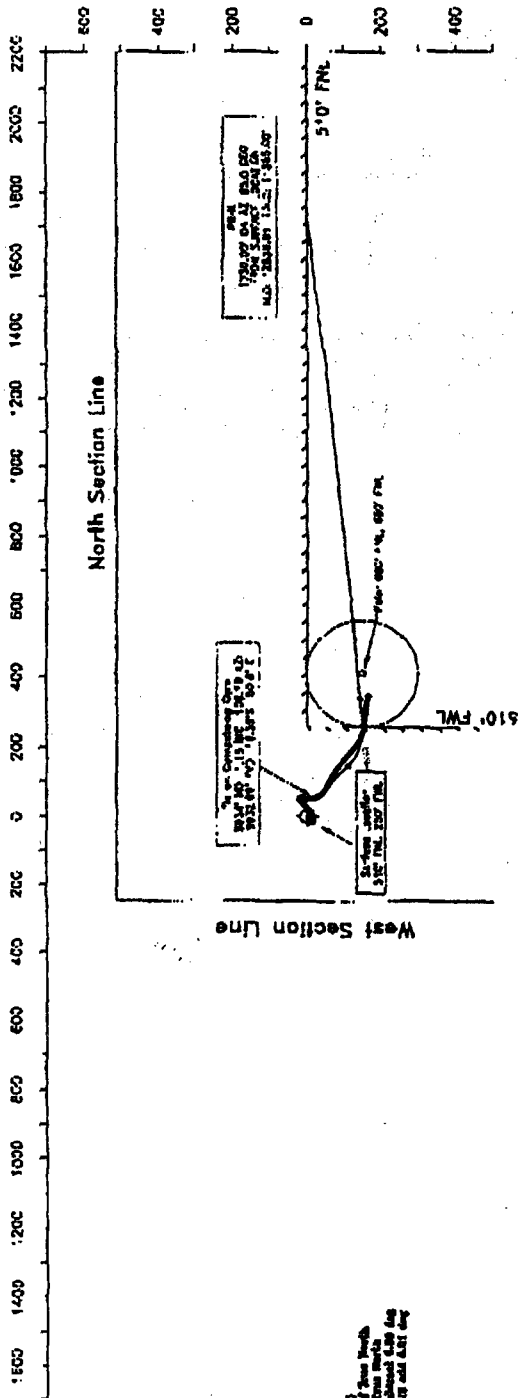
Targets associated with this wellpath

Target name	Geographic Location	T.V.D.	Rectangular Coordinates	Revised
Top Of Strawn		11269.00	90.00N 960.00E	20-Dec-2001



INTEQ

East (feet) -->



Supplemental North to 241 degrees East of True North
 True North is 241 degrees East of True North
 To convert, subtract 241 from True North
 To convert, subtract 241 from True North

TMBR/SHARP DRILLING INC.

Structure : HILBURN #3 Slot : slot #1
 Field : Location : LEA COUNTY, NEW MEXICO

WELL PROFILE DATA

Well	MD	DC	Dr	TD	End	V. Sect	Org/180
1720.00	13.03	02.45	1280.00	150.00	240.00	280.00	2.00
End of Turn	13.03	02.45	1280.00	150.00	240.00	280.00	2.00
End of 30' d/Turn	11430.84	90.00	11355.00	113.25	330.25	330.25	71.53
13.03	02.45	1280.00	150.00	240.00	280.00	280.00	2.00

13.03 02.45 1280.00 150.00 240.00 280.00 280.00 2.00

13.03 02.45 1280.00 150.00 240.00 280.00 280.00 2.00

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13.03 02.45 1280.00 150.00 240.00 280.00 280.00 2.00

13.03 02.45 1280.00 150.00 240.00 280.00 280.00 2.00

13.03 02.45 1280.00 150.00 240.00 280.00 280.00 2.00

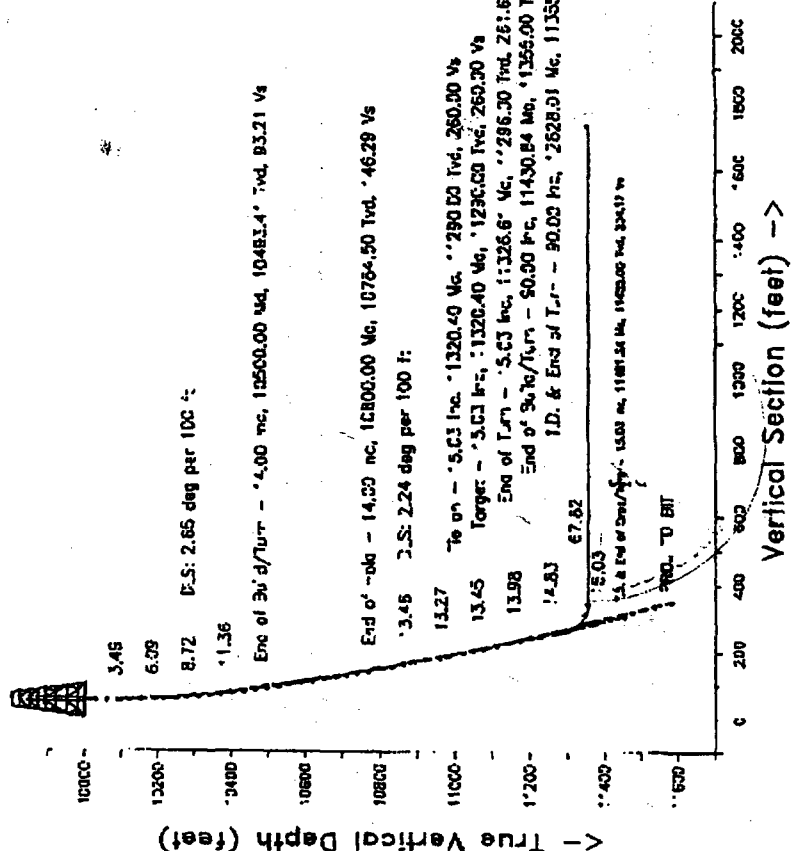
Created by server

Data source: 18-240-200
 Plot reference is LATERAL.

Coordinates are in feet reference slot #1.
 True Vertical Depth and reference slot #1.

imbrpva

9-19-01 Baker Hughes INTEQ



Vertical Section (feet) -->

Azimuth 90.00 with reference 0.00 N, 2.00 E from slot #1

Post-It® Fax Note	7671	Date	12-19	# of pages	▶
To	Baker	From	Baker		
Co./Dept.		Co.			
Phone #		Phone #	685-0113		
Fax #		Fax #	685-3621		

TMR/SHARP DRILLING INC.
HILBURN #3

slot #1

LEA COUNTY, NEW MEXICO

SURVEY LISTING

by
Baker Hughes INTEQ

Your ref : MWD
Our ref : svy1863
License :

Date printed : 19-Dec-2001
Date created : 10-Dec-2001
Last revised : 19-Dec-2001

Field is centred on n32 58 13.000,w103 14 15
Structure is centred on n32 58 13.000,w103 14 15

Slot location is n32 58 13.000,w103 14 15.000
Slot Grid coordinates are N 718448.687, E 836085.155
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is Grid North

TMBR/SHARP DRILLING INC.
HILBURN #3, slot #1
LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 4
Your ref : MWD
Last revised : 19-Dec-2001

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES	Dogleg Deg/100ft	Vert Sect	GRID Easting	COORDS Northing
11514.00	15.90	95.90	11474.66	160.21S 319.75E	0.31	356.89	836404.90	718288.47
11545.00	15.50	96.70	11504.51	161.13S 328.08E	1.47	364.93	836413.24	718287.56
11577.00	15.00	98.80	11535.38	162.26S 336.42E	2.33	373.05	836421.58	718286.42
11627.00	14.26	102.37	11583.76	164.57S 348.83E	2.33	385.38	836433.99	718284.11

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 385.71 on azimuth 115.26 degrees from wellhead.

Vertical section is from S 0.00 W 0.00 on azimuth 112.90 degrees.

Grid is mercator New Mexico East (3001).

Grid coordinates in U.T.M. and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

TMBR/SHARP DRILLING INC.
HILBURN #3, slot #1
.LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 5
Your ref : MWD
Last revised : 19-Dec-2001

		<u>Comments in wellpath</u>	
MD	IVD	Rectangular Coords.	Comment
11627.00	11583.76	164.57S	348.83E PROJ TO BIT

NO targets associated with this wellpath

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised March 25, 1999

WELL API NO. 30-025- 35596
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Hilburn
8. Well No. 3
9. Pool name or Wildcat North Shoe Bar (Strawn) (Wolfcamp)
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 3968 GR

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM G101) FOR SUCH PROPOSALS.)

1. Type of Well:
Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Permian Resources, Inc. OGRID 25797

3. Address of Operator
608 N. Main, Midland, Texas 79701

4. Well Location
Surface D 510' North 250' West
BHL Unit Letter C 510 feet from the North line and 1980' feet from the West line

Section 13 Township 16S Range 35E NMPM Lea County

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐	REMEDIAL WORK ☐ ALTERING CASING ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐	CASING TEST AND CEMENT JOB ☒
OTHER: ☐	OTHER: ☐

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

Permian Resources Inc. wishes to advise of the following operations on the Hilburn #3:
11-30-2001 Set 16 jts. 8 5/8" 32# N-80 (702') & 92 jts. 8 5/8" 32# J-55 (4126') csg. For a total of 108 jts. (4828') and set @4825'.
Cmt. w/1400 sx 35/65 Poz "C" + 6% gel +5% salt + 1/4 pps cello-flake & 250 sx Cl C Neat. PD @8:45AM 11/29/2001. Temp Svy. Showed TOC @506'.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Barbara Watson TITLE Regulatory & Operations DATE 11/30/2001

Type or print name Barbara Watson

Telephone No. 915/685-0113

(This space for State use)

APPROVED BY _____ TITLE PETROLEUM ENGINEER DATE DEC 7 2001

Conditions of approval, if any:

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised March 25, 1999

WELL API NO. 30-025- 35596
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Hilburn
8. Well No. 3
9. Pool name or Wildcat North Shoe Bar (Strawn) (Wolfcamp)

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:
Oil Well ☐ Gas Well ☒ Other ☐

2. Name of Operator
Permian Resources, Inc. OGRID 25797

3. Address of Operator
608 N. Main, Midland, Texas 79701

4. Well Location
Surface D 510' North 250' West
BHL Unit Letter C : 510 feet from the North line and 1980' feet from the West line
Section 13 Township 16S Range 35E NMPM Lea County

10. Elevation (Show whether DR, RKB, RT, GR, etc.)
3968 GR

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

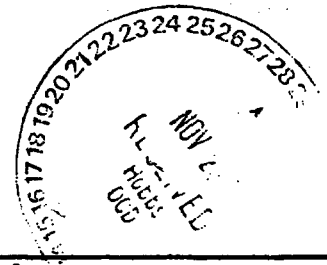
REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☒

OTHER: ☐

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

Permian Resources Inc. wishes to advise of the following operations on the Hilburn #3:

11-19-2001 Well spudded @1:30 AM, drilled to 490'. Set 12 jts. (490') 13 3/8" csg to 490', cemented w/150 sxs Cl C + 2% Ca Cl₂ + 1/4#/sk celloflake. Cement circulated to surface. Bump plug @5PM 11-19-2001.



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Barbara Watson TITLE Regulatory & Operations DATE 11/2/2001

Type or print name Barbara Watson Telephone No. 915/685-0113
(This space for State use)

APPROVED BY _____ TITLE _____ DATE _____

Conditions of approval, if any:

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised March 25, 1999

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025- <u>35596</u>
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Hilburn
8. Well No. 3
9. Pool name or Wildcat North Shoe Bar (Strawn) (Wolfcamp)
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 3968 GR

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH
PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other
2. Name of Operator Permian Resources, Inc. OGRID 25797
3. Address of Operator 608 N. Main, Midland, Texas 79701
4. Well Location Surface D 510' North 250' West BHL Unit Letter C : 510 feet from the North line and 1980' feet from the West line Section 13 Township 16S Range 35E NMPM Lea County

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐ OTHER: Simultaneous dedication ☒	SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐ CASING TEST AND CEMENT JOB ☐ OTHER: ☐

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

Administrative approval is being requested to simultaneously dedicate the proposed directionally drilled Hilburn #3 wellbore:

Surface location 510' FNL & 250' FWL, Unit Letter D, Sec. 13, T16S, R35E. Proposed BHL 510' FNL & 1980' FWL, Unit Letter C, Sec. 13, T16S, R35E and the existing Hilburn #1 (1980' FNL & 660' FWL, Unit Letter E, Sec. 13, T16S, R35E) to the existing 160 acre standard North Shoe Bar (Strawn) proration unit consisting of the NW/4 of Sec. 13, T16S, R35E.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Mike Stewart TITLE Engineer DATE 11/15/2001

Type or print name Mike Stewart
(This space for State use)

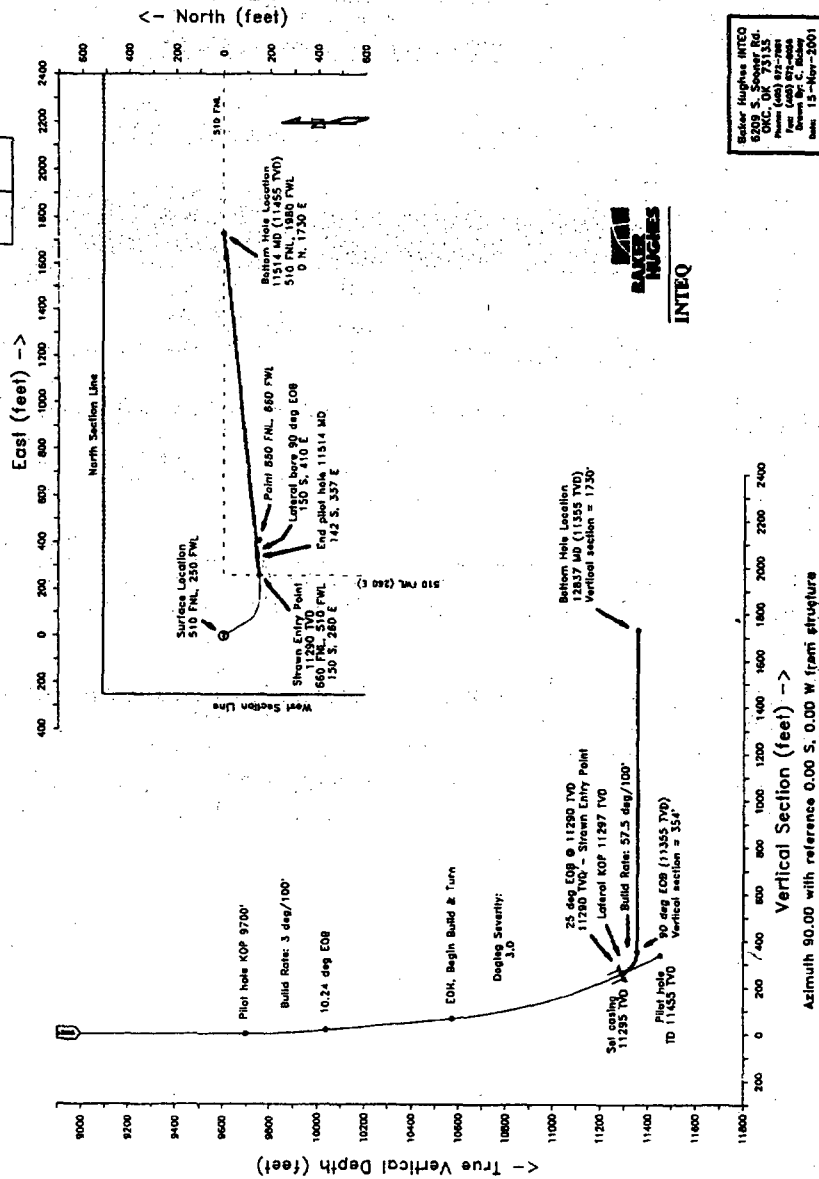
Telephone No. 915/685-0113

APPROVED BY PAUL F. KAUTZ TITLE ENGINEER DATE NOV 19 2001
Conditions of approval, if any:

PERMIAN RESOURCES

Structure : Hilburn #3 Sec 13-16S-35E
Field : LEA COUNTY

13



Baker Hughes INTEQ
5200 S. Street, N.E.
Oklahoma City, OK 73106
Phone (405) 972-7000
Fax (405) 972-0000
Internet: bhi@bakerhughes.com
Date: 13-Nov-2001

BAKER HUGHES
INTEQ

PERMIAN RESOURCES
Hilburn #3 Sec 13-16S-35E, slot #1
LEA COUNTY, NEW MEXICO

PROPOSAL LISTING Page 1
Your ref : **Lateral** (p3743)
Last revised : 15-Nov-2001

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	
11332.33	25.00	84.17	11290.01	150.09 S	260.06 E	0.00	260.06	11290 TVD - Strawn Entry Point
11337.83	25.00	84.17	11295.00	149.85 S	262.37 E	0.00	262.37	Set casing 11295 TVD
11340.00	25.00	84.17	11296.96	149.76 S	263.29 E	0.00	263.29	Lateral KOP
11396.14	57.00	84.17	11338.79	146.07 S	299.45 E	57.00	299.45	
11454.03	90.00	84.17	11355.00	140.51 S	353.91 E	57.00	353.91	90 deg EOB (11355 TVD) - Target
11500.00	90.00	84.17	11355.00	135.85 S	399.64 E	0.00	399.64	
11600.00	90.00	84.17	11355.00	125.69 S	499.13 E	0.00	499.13	
11700.00	90.00	84.17	11355.00	115.54 S	598.61 E	0.00	598.61	
11800.00	90.00	84.17	11355.00	105.39 S	698.09 E	0.00	698.09	
11900.00	90.00	84.17	11355.00	95.23 S	797.58 E	0.00	797.58	
12000.00	90.00	84.17	11355.00	85.08 S	897.06 E	0.00	897.06	
12100.00	90.00	84.17	11355.00	74.92 S	996.54 E	0.00	996.54	
12200.00	90.00	84.17	11355.00	64.76 S	1096.03 E	0.00	1096.03	
12300.00	90.00	84.17	11355.00	54.60 S	1195.51 E	0.00	1195.51	
12400.00	90.00	84.17	11355.00	44.44 S	1294.99 E	0.00	1294.99	
12500.00	90.00	84.17	11355.00	34.28 S	1394.47 E	0.00	1394.47	
12600.00	90.00	84.17	11355.00	24.12 S	1493.96 E	0.00	1493.96	
12700.00	90.00	84.17	11355.00	13.95 S	1593.44 E	0.00	1593.44	
12800.00	90.00	84.17	11355.00	3.79 S	1692.92 E	0.00	1692.92	
12837.27	90.00	84.17	11355.00	0.00 N	1730.00 E	0.00	1730.00	TD (510 FNL, 1980 FWL)

All data is in feet unless otherwise stated.
Coordinates from structure and TVD from rotary table.
Bottom hole distance is 1730.00 on azimuth 90.00 degrees from wellhead.
Vertical section is from S 0.00 W 0.00 on azimuth 90.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

PERMIAN RESOURCES
Hilburn #3 Sec 13-16S-35E, slot #1
LEA COUNTY, NEW MEXICO

PROPOSAL LISTING Page 1
Your ref : Pilot hole (p3742)
Last revised : 15-Nov-2001

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	
9700.00	0.00	148.88	9700.00	0.00 N	0.00 E	0.00	0.00	KOP 9700'
9800.00	3.00	148.88	9799.95	2.24 S	1.35 E	3.00	1.35	
9900.00	6.00	148.88	9899.63	8.96 S	5.41 E	3.00	5.41	
10000.00	9.00	148.88	9998.77	20.13 S	12.15 E	3.00	12.15	
10041.49	10.24	148.88	10039.67	26.07 S	15.73 E	3.00	15.73	10.24 deg End of Build
10500.00	10.24	148.88	10490.87	95.88 S	57.88 E	0.00	57.88	
10582.75	10.24	148.88	10572.30	108.48 S	65.48 E	0.00	65.48	EOH, Begin Build & Turn
10600.00	10.28	145.98	10589.28	111.07 S	67.14 E	3.00	67.14	
10700.00	10.97	130.09	10687.58	124.59 S	79.41 E	3.00	79.41	
10800.00	12.36	116.89	10785.54	135.56 S	96.23 E	3.00	96.23	
10900.00	14.25	106.72	10882.86	143.94 S	117.57 E	3.00	117.57	
11000.00	16.46	99.06	10979.30	149.72 S	143.35 E	3.00	143.35	
11100.00	18.89	93.24	11074.57	152.86 S	173.51 E	3.00	173.51	
11200.00	21.46	88.74	11168.44	153.37 S	207.97 E	3.00	207.97	
11300.00	24.12	85.17	11260.62	151.25 S	246.63 E	3.00	246.63	
11332.30	25.00	84.17	11290.00	150.00 S	260.00 E	3.00	260.00	11290 TVD - Strawn Entry Point
11500.00	25.00	84.17	11441.99	142.81 S	330.51 E	0.00	330.51	
11514.36	25.00	84.17	11455.00	142.19 S	336.54 E	0.00	336.54	End pilot hole 11455 TVD

All data is in feet unless otherwise stated.
Coordinates from structure and TVD from rotary table.
Bottom hole distance is 365.35 on azimuth 112.90 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 90.00 degrees.
Calculation uses the minimum curvature method.
Presented by Baker Hughes INTEQ

Permian Resources, Inc

Hilburn No. 3

Procedure to Drill Vertical Wellbore to Test, Log and Evaluate North Shoe Bar (Strawn) Pool then Set Casing, Kick-Off and Drill Horizontally in Strawn Porosity to Proposed BHL

Proposed Surface Location

510' FNL & 250' FWL
Section 13, T16S, R35E
Lea County, New Mexico

Proposed Bottom Hole Location

510' FNL & 1980' FWL
Section 13, T16S, R35E
Lea County, New Mexico

Proposed Hole Sizes, Casing Sizes and Cement

17-1/2" hole @ 450' 13-3/8" 48 #/ft casing @ 450'

Cmt. w/ ± 275 sx Class "C" w/ 4% Gel + 2% CaCl lead + 175 sx "C" w/ 2% CaCl. Sufficient to circulate to surface.

11" hole @ $\pm 4,800'$ 8-5/8" 32 & 24 #/ft casing @ $\pm 4,800'$

Cmt. w/ ± 850 sx Lite lead + 200 sx "C" + 1% CaCl tail. Sufficient to circulate to surface.

7-7/8" hole @ $\pm 11,450'$ 5-1/2" 17 #/ft casing @ 11,300'

Cmt. w/ ± 450 sx "H" pozmix w/ RFA & retarders + 400 sx Poz/ "C" tail. Sufficient to bring TOC to $\pm 4,000'$.

4-3/4" hole @ $\pm 13,000'$ MVD

Abbreviated Proposed Procedure

1. Contract John West Surveys to survey confirming surface location as permitted and providing latitude and longitude. Build roads, location, cellar and dig pits to accommodate selected drilling rig. Drill mouse hole and rat hole.
2. MIRU rotary drilling rig. Drill 17-1/2" surface hole utilizing FW native spud mud and circulating cellar returns with #2 pump cellar jet to $\pm 450'$. Survey @ TD. Circ. and condition hole. POOH w/ DP, Collars & BHA. Run $\pm 450'$ of 13-3/8" Used or LS, 48 #/ft, J-55, ST&C casing w/ float equipment. Land casing and cement with 100% excess ± 275 sx Class "C" + 4% Gel + 2% CaCl lead + 175 sx "C" + 2% tail cement. Circulate cement to surface. WOC 12 hrs. Cut off and weld on 13-3/8" x 8-5/8" series 600 flanged casing head. NU 11" x 5000# Shaffer double preventer with 11" x 5000# Hydril annular preventer. Test casing and BOP to 1000#. PU 11" Bit, BHA, collars and RIH. Wait on cement total of 18 hrs before drilling plug.
3. Drill 11" intermediate hole utilizing FW circulating inside reserve pit adding oil @ $\pm 1,600'$ for Red Beds. At $\pm 1,900'$, after drilling Red Beds, begin adding BW to system to minimize salt washout. Mud logger on @ $\pm 3,000'$. Drill to TD @ $\pm 4,800'$. Surveys every 500', Max deviation 5 deg., Max change 1-1/2% per 100'. Circ. and condition hole. POOH w/ DP, Collars & BHA. Run $\pm 4,800'$ of 8-5/8", 24 #/ft, J-55, 32 #/ft, J-55 and 32 #/ft, S-65, ST&C casing w/ float equipment. Land casing and cement with ± 850 sx Lite (35/65) Poz / "C" lead

Permian Resources, Inc.
Hilburn No. 3
Drill & Complete to North Shoe Bar (Strawn)
14 November 2001 – Page 2

cement + 200 sx Class "C" w/ 1% CaCl. Circulate cement to surface. WOC 8 hrs. Cut off and weld on 8-5/8" x 5-1/2" series 900 flanged casing head. NU BOP and test casing to 1000#. NU choke manifold, install mud degasser and flare line. Install rotating head. Test BOP, choke manifold and associated lines. PU 7-7/8" bit, BHA, collars and RIH. Wait on cement total of 18 hrs before drilling plug.

4. Drill 7-7/8" hole utilizing FW circulating outside reserve pit adding MF-55 for solids. Surveys every 500', max deviation 5 deg., max. change 1-1/2% per 100'.
5. At $\pm 10,280'$, (KOP), turn into steel pits and mud up by adding gel for viscosity of 32 – 34 and lower fluid loss to <15 cc by adding starch. RU directional company and MWD equipment. Run gyro. PU directional BHA and directionally drill w/ 7-7/8" bit using a build rate @ 3 deg / 100'. EOB 25 deg. Drill tangent pilot hole w/ 25 deg angle to $\pm 11,450'$. Estimated top of Strawn lime @ 11,290'. DST's possible in Wolfcamp section $\pm 10,400'$ and Strawn porosity $\pm 11,335'$. Drill 7-7/8" hole to $\pm 60'$ below last Strawn drilling break. Circ. and condition hole for logs. POOH w/ DP, Collars & directional BHA. Run open hole log suite consisting of GR / CNL / FDL and DIL / MSL from TD to intermediate casing. GR / CNL to surface. Evaluate Strawn formation for election to run 5-1/2" casing and complete.
6. If elect to complete, RIH w/ DP and circulate for casing. Spot 17.5 – 18 #/gal cement KO plug across Strawn interval to $\pm 100'$ above top of Strawn lime. POOH w/ DP and PU bit, BHA, DC's and DP and RIH to TOC. Drill and dress off cmt. KO plug to $\pm 2'$ below Strawn lime top. POOH and lay down BHA, DC's & DP.
7. Run $\pm 11,292'$ of 5-1/2", 17 #/ft, N-80 & S-95, LT&C casing w/ float equipment. Land casing and cement with ± 450 sx (50/50) Poz/ "H" lead cement w/ appropriate friction reducers and retarders + 400 sx Poz/ "C" tail cement w/ appropriate additives. Cement volume based upon open hole logs with sufficient volume to bring cement up inside intermediate casing to $\pm 4,200'$. WOC 8 hrs. Cut off and weld on 5-1/2" x 2-7/8" series 900 flanged tubing head. NU BOP and test casing to 2000#. NU choke manifold, choke lines, gas buster and flare line. Test BOP, choke manifold and associated lines. Install rotating head. Jet steel pits
8. PU 4-3/4" bit, directional BHA and RIH on 2-7/8" AOH drill pipe to top of plug. DO plug, float collar, shoe jt. and shoe w/ FW treated w/ sodium bicarb and/or SAPP. After drilling cement, mud up with Starpac II/MF-55/DCS light low viscosity system for 8.4 ppg., 30-32 viscosity with a FL of 8 cc's or less. Directional drill curve w/ build rate of 60 deg/100 ft to turn well to horizontal in Strawn porosity target. Drill horizontal section in Strawn porosity to projected BHL of 510' FNL and 1,980' FWL, Sec 13, T16S, R35E. Control well and record orientation, depth, angle, and coordinates per directional drilling contractor and NMOCD requirements. To aid in hole cleaning, utilize XCD-polymer for small periodic viscous sweeps.
9. Upon reaching BHL target estimated @ TVD @ 11,355', MVD @ $\pm 13,000'$, total displacement $\pm 1,600'$. Lay down DP & BHA. RD rotary drilling rig.
10. RU well service unit. NU BOP and PU 2-7/8" N-80 tbg and RIH to OH TD. Circulate hole clean w/ 2% KCL water. RU acid stimulation company and spot 15% MCA through OH interval. POOH w/ tbg & PU 5-1/5" x 2-7/8" loc-set FO pkr. w/ on/off tool and profile nipple. RIH and set pkr. @ $\pm 11,270'$ & NU flowing wellhead. Acidize Strawn formation w/ spot acid + volume of additional acid to be determined upon pay interval. RU swab and swab

Permian Resources, Inc.
Hilburn No. 3
Drill & Complete to North Shoe Bar (Strawn)
14 November 2001 – Page 3

and test well. Complete as flowing completion or install BPU if required. RD well service unit. Restore location.

C:/PRI Hilburn 3 detailed procedure

RECEIVED
Hilburn
GCC

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised March 17, 1999

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☒ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Permian Resources, Inc.		² OGRID Number 25797
³ Property Code 25993	⁵ Property Name Hilburn	⁴ API Number 30-025-35596
		⁶ Well No. 3

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	16S	35E		510	North	250	West	Lea

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	13	16S	35E		510	North	1980	West	Lea

⁹ Proposed Pool North Shoe Bar (Strawn)	¹⁰ Proposed Pool 2 North Shoe Bar (Wolfcamp)
---	--

¹¹ Work Type Code D	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3968
¹⁶ Multiple N	¹⁷ Proposed Depth 11,500	¹⁸ Formation Strawn	¹⁹ Contractor Tmbr Sharp	²⁰ Spud Date 11/16/2001

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2	13 3/8	48	450	450	Surface
11	8 5/8	24 & 32	4800	1050	Surface
7 7/8	5 1/2	17	11250	850	+4000

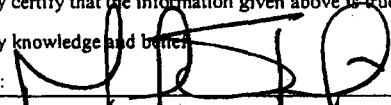
²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone.

Describe the blowout prevention program, if any. Use additional sheets if necessary.

See attached proposal C103

Permit Expires 1 Year From Approval
Date Unless Drilling Operations

BOP Program to include 5000# Double Ram & Hydril Annular Strawn penetration point is projected at 660' FNL & 510' FWL which is a standard location. Horizontal BHL as above.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: 		OIL CONSERVATION DIVISION	
Printed name: Mike Stewart		Approved by:	
Title: Engineer		Title:	
Date: 11-15-2001		Approval Date:  Expiration Date:	
Phone: 915/685-0113		Conditions of Approval: Attached ☐	

SCA

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Artesia, NM 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87506

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 56270	Pool Name NORTH SHOE BAR (STRAWN)
Property Code 25993	Property Name HILBURN	Well Number 3
OGRID No. 25797	Operator Name PERMIAN RESOURCES, INC.	Elevation 3969

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	16 S	35 E		510	NORTH	250	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	13	16 S	35 E		510	NORTH	1980	WEST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
158.3			

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

Plane Coordinate X = 781,011.0 Y = 702,298.2 Strawn (PP) 1980' 1478' 510' 300' 1859' #3 (Surface Location) Plane Coordinate X = 780,748.9 Y = 702,445.4 #2 Existing Hilburn #2 1190' FNL & 1980' FWL North Shoe Bar (Wolfcamp) NSL Order #1919 Project Area 158.3 Acres NW/4 Section 13, T-16-S, R-35-E Existing Hilburn #1 1980' FNL & 660' FWL North Shoe Bar (Wolfcamp) North Shoe Bar (Strawn) DHC Permit #885 NOTE: 1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Michael Stewart Printed Name Agent Title November 15, 2001 Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief. November 15, 2001 Date Surveyed Signature & Seal of Professional Surveyor W.O. Num. 2001-1037-S Certificate No. MACON McDONALD 12185
---	--

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
811 South First, Artesia, NM 87210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised March 25, 1999

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

WELL API NO. <u>30-025-35596</u>
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Hilburn
8. Well No. 3
9. Pool name or Wildcat North Shoe Bar (Strawn)
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 3968 GR

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other	
2. Name of Operator Permian Resources, Inc.	
3. Address of Operator P.O. Box 590, Midland, TX 79702	
4. Well Location Surface D 660' North 510' West BHL Unit Letter F : 1980 feet from the North line and 1980 feet from the West line Section 13 Township 16S Range 35E NMPM Lea County	
11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐ OTHER: Simultaneous dedication ☒	SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐ CASING TEST AND CEMENT JOB ☐ OTHER: ☐

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

Administrative approval is being requested to simultaneously dedicate the proposed directionally drilled Hilburn #3 wellbore:

Surface location 660' FNL & 510' FWL, Ut. letter D, Sec. 13, T16S, R35E. Proposed BHL 1980' FNL & 1980' FWL, Ut. letter F, Sec. 13, T16S, R35E and the existing Hilburn #1 (1980' FNL & 660' FWL, Ut. letter E, Sec. 13, T16S, R35E) to the existing 160 acre standard North Shoe Bar (Strawn) proration unit consisting of the NW/4 of Sec. 13, T16S, R35E.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Robert H. Marshall TITLE President DATE 6-11-01

Type or print name Robert H. Marshall
(This space for State use)

Telephone No. (915) 685-0113

APPROVED BY Paul Kraus TITLE Geologist DATE 6-11-01
Conditions of approval, if any:

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-101
Revised March 17, 1999

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Permian Resources, Inc. P. O. Box 590, Midland, TX 79702		² OGRID Number 25797
		³ API Number 30-025-35596
⁴ Property Code 25993	⁵ Property Name Hilburn	⁶ Well No. 3

⁷Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	16S	35E		660	North	510	West	Lea

⁸Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	13	16S	35E		1980	North	1980	West	Lea

⁹ Proposed Pool 1 North Shoe Bar (Strawn)	¹⁰ Proposed Pool 2 North Shoe Bar (Wolfcamp)
---	--

¹¹ Work Type Code D N	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3968
¹⁶ Multiple N	¹⁷ Proposed Depth 11,500' TVD	¹⁸ Formation Strawn	¹⁹ Contractor NA	²⁰ Spud Date 8/1/01

²¹Proposed Casing and Cement Program

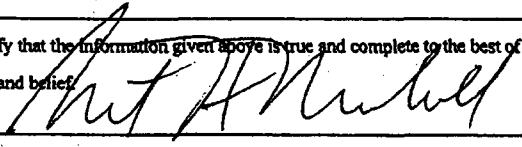
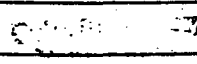
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17-1/2"	13-3/8"	54.5	450'	450 sx	Surface
12-1/4"	8-5/8"	32 & 24	4,200'	2,500 sx	Surface
7-7/8"	5-1/2"	20 & 17	11,400'	1,000 sx	±4,000'
4-5/8"	4" FJ Liner	11.6	11,350'	100 sx	

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone.
Describe the blowout prevention program, if any. Use additional sheets if necessary.

See Attached Proposal

BOP Program to include 5000# Double Ram and Hydril Annular

Permit Expires 1 Year From Approval
Date Unless Drilling Underway

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: 		OIL CONSERVATION DIVISION	
Printed name: Robert H. Marshall		Approved by: 	
Title: President		Title:	
Date: June 10, 01		Approval Date:	Expiration Date:
Phone: (915) 685-0113		Conditions of Approval: Attached ☐	

5
2
A

47
mp

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000
Submit to Appropriate District Office
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DISTRICT II
P.O. Drawer 80, Artesia, NM 88211-0710

DISTRICT III
1000 Rio Grande Rd., Aztec, NM 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87506

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-35596	Pool Code 56270	Pool Name NORTH SHOE BAR (STRAWN)
Property Code 25993	Property Name HILBURN	Well Number 3
OCRD No. 25797	Operator Name PERMIAN RESOURCES, INC.	Elevation 3968

Surface Location

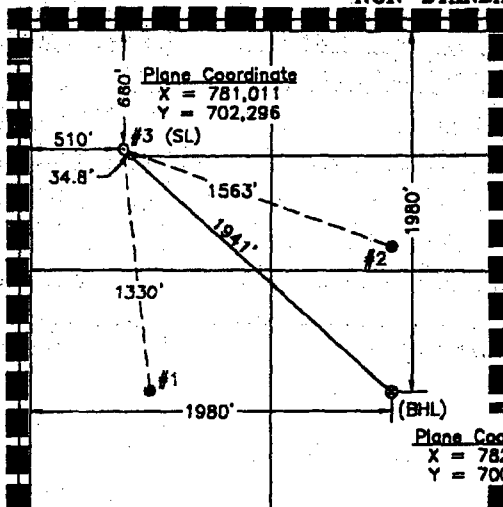
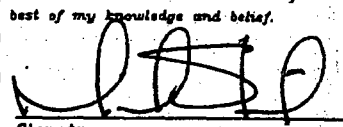
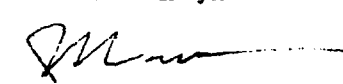
UL or lot No.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
D	13	16 S	35 E		660	NORTH	510	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
F	13	16 S	35 E		1980	NORTH	1980	WEST	LEA

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
-------------------------------	-----------------	--------------------	-----------

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

 Plane Coordinate X = 781,011 Y = 702,296 #3 (SL) 510' 34.8' 1563' 1941' 1330' 1980' (BHL) Plane Coordinate X = 782,493 Y = 700,988	Strawn Penetration Point 683' FNL & 536' FWL X = 781,037 Y = 702,273 Existing Hilburn #2 1190' FNL & 1980' FWL North Shoe Bar (Wolfcamp) NSL Order #1919	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Michael Stewart Printed Name Agent July 13, 2001 Date
Existing Hilburn #1 1980' FNL & 660' FWL North Shoe Bar (Wolfcamp) North Shoe Bar (Strawn) DHC Permit #885	Project Area 160 Acres NW 1/4 Section 13, T16S, R35E	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief. July 5, 2001 Date Surveyed Signature & Seal of Professional Surveyor  M2 W.O. Num. 2001-0637-S Certificate No. MACON McDONALD 12185

NOTE:

- 1) Plane Coordinates shown hereon are Lambert Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.



Job Number: Proposal
 Company: PERMIAN RESOURCES, INC.
 Lease/Well: Hilburn #3
 Location: Lea County
 Rig Name: N/A
 RKB: N/A
 G.L. or M.S.L.: 3968

State/Country: New Mexico/USA
 Declination: 8.04681
 Grid: 2.00
 File name: C:\WINSERVE\PRHIL3.SVY
 Date/Time: 26-Jun-01 / 09:20
 Curve Name: Hilburn #3

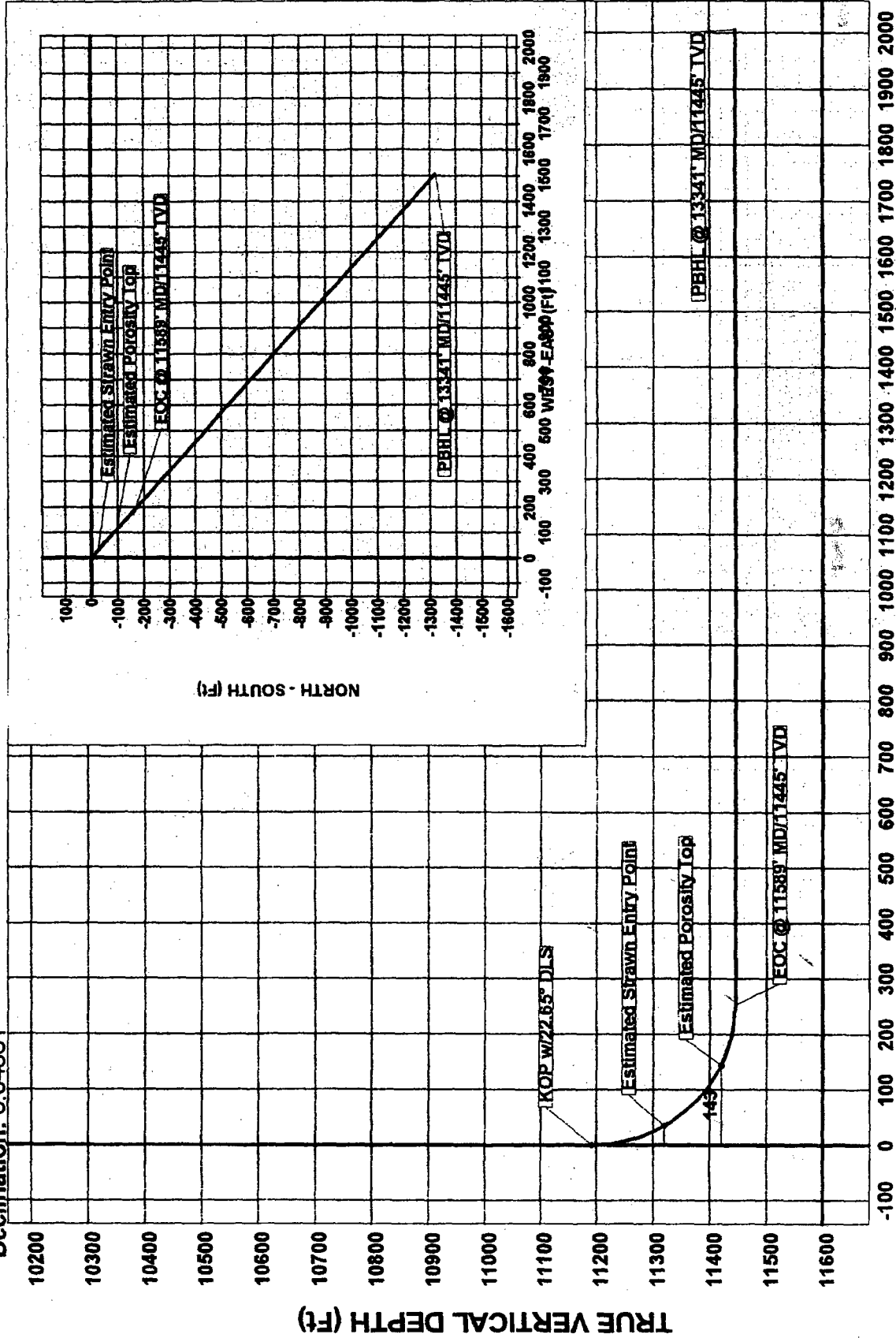
WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 131.34
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	Dogleg Severity Deg/100
KOP w/22.65° DLS								
11192.00	.00	131.34	11192.00	-7224.00	.00	.00	.00	.00
11222.00	8.79	131.34	11221.93	-7253.93	-1.17	1.33	1.78	22.65
11252.00	13.59	131.34	11251.44	-7283.44	-4.68	5.32	7.08	22.65
11282.00	20.38	131.34	11280.11	-7312.11	-10.46	11.89	15.84	22.65
11312.00	27.18	131.34	11307.55	-7339.55	-18.45	20.97	27.93	22.65
Estimated Strawn Entry Point								
11326.21	30.39	131.34	11320.00	-7352.00	-22.97	26.10	34.77	22.65
11342.00	33.97	131.34	11333.37	-7365.37	-28.52	32.42	43.18	22.65
11372.00	40.76	131.34	11357.19	-7389.19	-40.54	46.08	61.38	22.65
11402.00	47.56	131.34	11378.70	-7410.70	-54.34	61.76	82.26	22.65
11432.00	54.35	131.34	11397.59	-7429.59	-69.72	79.25	105.55	22.65
11462.00	61.15	131.34	11413.59	-7445.59	-86.47	98.28	130.91	22.65
Estimated Porosity Top								
11475.99	64.31	131.34	11420.00	-7452.00	-94.68	107.62	143.34	22.65
11492.00	67.94	131.34	11426.48	-7458.48	-104.35	118.61	157.98	22.65
11522.00	74.73	131.34	11436.07	-7468.07	-123.11	139.94	186.38	22.65
11552.00	81.53	131.34	11442.24	-7474.24	-142.49	161.97	215.72	22.65
11582.00	88.32	131.34	11444.89	-7476.89	-162.22	184.39	245.59	22.65
11589.40	90.00	131.34	11445.00	-7477.00	-167.10	189.94	252.99	22.65

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	Subsea TVD FT	N-S FT	E-W FT	Vertical Section FT	Dogleg Severity Deg/100
EOC @ 11589' MD/11445' TVD								
11589.41	90.00	131.34	11445.00	-7477.00	-167.11	189.95	253.00	2.01
11689.41	90.00	131.34	11445.01	-7477.01	-233.17	265.03	353.00	.00
11789.41	90.00	131.34	11445.01	-7477.01	-299.22	340.11	453.00	.00
11889.41	90.00	131.34	11445.02	-7477.02	-365.27	415.19	553.00	.00
11989.41	90.00	131.34	11445.02	-7477.02	-431.32	490.27	653.00	.00
12089.41	90.00	131.34	11445.03	-7477.03	-497.38	565.36	753.00	.00
12189.41	90.00	131.34	11445.03	-7477.03	-563.43	640.44	853.00	.00
12289.41	90.00	131.34	11445.04	-7477.04	-629.48	715.52	953.00	.00
12389.41	90.00	131.34	11445.04	-7477.04	-695.53	790.60	1053.00	.00
12489.41	90.00	131.34	11445.05	-7477.05	-761.59	865.68	1153.00	.00
12589.41	90.00	131.34	11445.05	-7477.05	-827.64	940.76	1253.00	.00
12689.41	90.00	131.34	11445.06	-7477.06	-893.69	1015.84	1353.00	.00
12789.41	90.00	131.34	11445.06	-7477.06	-959.74	1090.92	1453.00	.00
12889.41	90.00	131.34	11445.07	-7477.07	-1025.80	1166.00	1553.00	.00
12989.41	90.00	131.34	11445.07	-7477.07	-1091.85	1241.08	1653.00	.00
13089.41	90.00	131.34	11445.08	-7477.08	-1157.90	1316.16	1753.00	.00
13189.41	90.00	131.34	11445.08	-7477.08	-1223.95	1391.24	1853.00	.00
13289.41	90.00	131.34	11445.09	-7477.09	-1290.01	1466.32	1953.00	.00
PBHL @ 13341' MD/11445' TVD								
13341.41	90.00	131.34	11445.09	-7477.09	-1324.35	1505.36	2005.00	.00

Company: PERMIAN RESOURCES, INC.
 Lease/Well: Hilburn #3
 Location: Lea County
 Rig Name: N/A
 State/Country: New Mexico/USA
 Declination: 8.04661

Grid: 2.00



- Hilburn #3

VERTICAL SECTION (Ft) @ 131.34°

Hilburn # 3

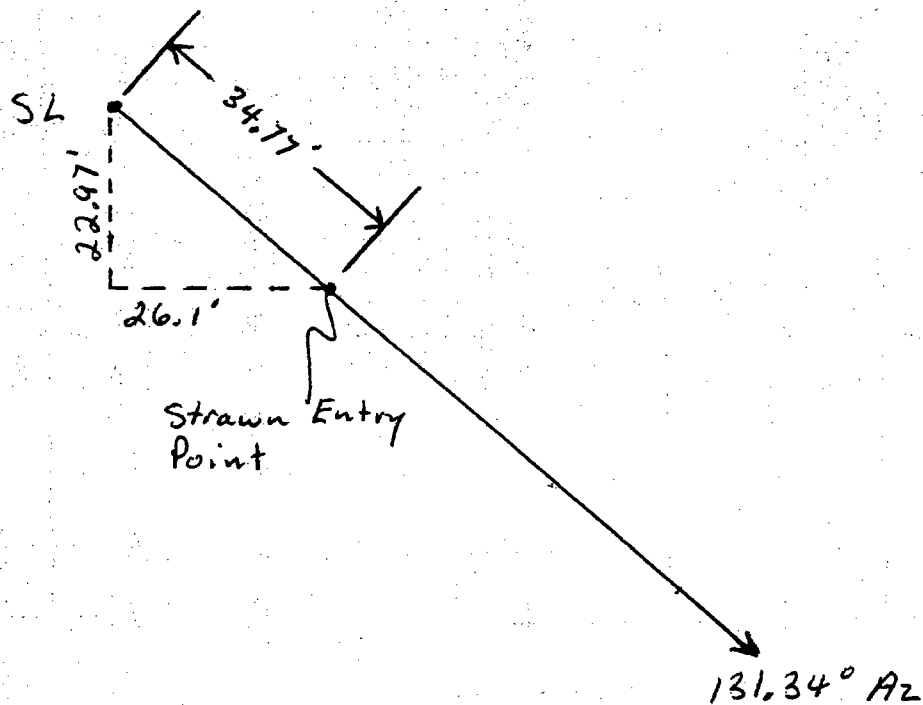
$$Az = 131.34^\circ$$

BHL @ 1324.35' S & 1505.36' E of sur. loc.

Strawn Top = 11,320' TVD

Porosity Top = 11,420' TVD $\Rightarrow$ Land @ 11,445' TVD

CIBP @ 11,200' TVD $\Rightarrow$ KOP = 11,192' TVD



Strawn entry point:

22.97' S & 26.1' E of sur. loc.

or

34.77' from sur. loc. in a 131.34° direction

Permian Resources, Inc

Hilburn No. 3

Procedure to Drill Vertical Wellbore to Test, Log and Evaluate North Shoe Bar (Strawn) Pool then Set Casing, Mill Window, Kick-Off and Drill Horizontally in Strawn Porosity to Proposed BHL

Proposed Surface Location

660' FNL & 510' FWL
Section 13, T16S, R35E
Lea County, New Mexico

Proposed Bottom Hole Location

1980' FNL & 1980' FWL
Section 13, T16S, R35E
Lea County, New Mexico

Proposed Hole Sizes, Casing Sizes and Cement

17-1/2" hole @ 450'	13-3/8" 54.5 #/ft casing @ 450'	Cmt w/ ±450 sx Class "C" w/ 2% CaCl. Sufficient to circulate to surface.
12-1/4" hole @ ± 4,200'	8-5/8" 32 & 24 #/ft casing @ ±4,200'	Cmt w/ ±2100 sx Lite lead + 400 sx "C" + 2% CaCl tail. Sufficient to circulate to surface.
7-7/8" hole @ ± 11,400'	5-1/2" 20 & 17 #/ft casing @ 11,400'	Cmt w/ ±600 sx "H" pozmix w/ RFA & retarders + 400 sx "H". Sufficient to bring TOC to ±4,000'.
4-5/8" hole @ ± 13,346' MVD		

Abbreviated Proposed Procedure

1. Contract John West Surveys to survey confirming surface location as permitted and providing latitude and longitude. Build roads, location, cellar and dig pits to accomodate selected drilling rig. Drill mouse hole and rat hole
2. MIRU rotary drilling rig. Drill 17-1/2" surface hole utilizing FW native spud mud and circulating cellar returns with #2 pump cellar jet to ± 450'. Survey @ TD. Circ. and condition hole. POOH w/ DP, Collars & BHA. Run ± 450' of 13-3/8" Used or LS, 54.5 #/ft, K-55, ST&C casing w/ float equipment. Land casing and cement with 100% excess ± 450 sx Class "C" + 2% CaCl cement. Circulate cement to surface. WOC 12 hrs. Cut off and weld on 13-3/8" x 8-5/8" series 600 flanged casing head. NU 13-3/8" x 5000# Shaffer double preventer with 13-3/8" x 5000# Hydrill annular preventer. Test casing and BOP to 1000#. PU 12-1/4" Bit, BHA, collars and RIH. Wait on cement total of 18 hrs before drilling plug.
3. Drill 12-1/4" intermediate hole utilizing 10 # BW circulating inside reserve pit adding oil if necessary for Red Beds. Drill to TD @ ± 4,200'. Surveys every 500', Max deviation 5 deg., Max change 1-1/2% per 100'. Circ. and condition hole. POOH w/ DP, Collars & BHA. Run ± 4,200' of 8-5/8", 32 & 24 #/ft, J-55, ST&C casing w/ float equipment. Land casing and cement with ± 2,000 sx Lite Wt lead cement + 500 sx Class "C" w/ 2% CaCl. Circulate cement to surface. WOC 8 hrs. Cut off and weld on 8-5/8" x 5-1/2" series 600 flanged casing head. NU BOP and test casing to 1000#. NU choke manifold, install mud degasser and flare line. Test BOP, choke manifold and associated lines. Install rotating head. PU 7-7/8" bit, BHA, collars and RIH. Wait on cement total of 18 hrs before drilling plug.

4. Drill 7-7/8" hole utilizing FW circulating outside reserve pit adding MF-55 for solids. Mud logger on at 5,000'. At $\pm 10,000'$ turn into steel pits and bring MW up to ± 8.9 #/gal by adding BW. At $\pm 10,200'$ lower fluid loss to <12 cc by adding starch. Drill to TD @ $\pm 11,500'$ adding BW to increase mud weight if required. Surveys every 500', Max deviation 5 deg., Max change 1-1/2% per 100'. DST's possible in Wolfcamp section $\pm 10,400'$ and Strawn section $\pm 11,340'$. Drill 7-7/8" hole to ± 30 below last Strawn drilling break. Circ. and condition hole for logs. POOH w/ DP, Collars & BHA. Run open hole log suite consisting of GR / CNL / FDL and DIL / MSL from TD to intermediate casing. GR to surface. Evaluate Strawn formation for election to run 5-1/2" casing and complete.
5. If elect to complete, RIH w/ bit, BHA, collars and DP and circulate for casing. POOH w/ DP, collars & BHA laying down all. Run $\pm 11,400'$ of 5-1/2", 20 & 17 #/ft, N-80 & J-55, LT&C casing w/ float equipment. Land casing and cement with ± 600 sx "H" lead cement w/ appropriate friction reducers and retarders + 400 sx "H" tail cement w/ appropriate additives. Cement volume based upon open hole logs with sufficient volume to bring cement up inside intermediate casing. WOC 8 hrs. Cut off and weld on 5-1/2"x 2-7/8" series 600 flanged tubing head. NU BOP and test casing to 1000#. NU choke manifold, choke lines, gas buster and flare line. Test BOP, choke manifold and associated lines. Install rotating head. Jet steel pits and mix Xanthan Gum mud system. PU 4-5/8" bit, BHA, collars and RIH on 2-7/8" AOH drill pipe to top of plug. POOH w/ DP, collars, BHA and bit. RU wireline company and set 5-1/2" CIBP @ $\pm 11,200'$.
6. RU directional drilling equipment and MWD equipment. Set 5-1/2", 20#/ft retrievable whip stock per directional drilling contractor specs on top of CIBP @ 11,200'.
7. PU mill, motor, BHA and RIH on DP. Cut window in 5-1/2" casing. POOH and PU 4-5/8" Bit and RIH on motor, BHA and DP. Kick off out window, build angle and begin drilling to encounter Strawn porosity @ $\pm 11,360'$ TVD. Upon encountering Strawn porosity continue drilling in porosity to BHL at 1,980' FNL & 1,980' FWL, Section 13, T16S, R35E. Control well and record orientation, depth, angle, and coordinates per directional drilling contractor and NMOC requirements. Anticipate 8.9 to 9.2 PPG drilling fluid with additives to control fluid loss and viscosity.
8. Upon reaching BHL target estimate TVD @ 11,370', MVD @ 13,346', total displacement $\pm 1,976'$. If required, run 4" FJ Liner from $\pm 11,180'$ through build angle and shale to Strawn porosity. Cement liner and D/O if required by hole conditions. RU wireline company and set 5-1/2" RBP. Lay down DP & BHA. RD rotary drilling rig.
9. RU well service unit. NU BOP and PU 2-7/8" N-80 tbg and RIH w/ retrieving tool and retrieve RBP. PU pkr. and RIH on tbg. Set pkr. and acid stimulate as required. Test well. Complete as flowing completion or install BPU if required. RD well service unit. Restore location.

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised June 10, 2003

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-35596
5. Indicate Type of Lease STATE ☐ FEE X ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Hilburn Property No. 25993
8. Well Number #2 3
9. OGRID Number 025797
10. Pool name or Wildcat Shoebar: Strawn, Northeast & Shoebar; Wolfcamp, North

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:
Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Permian Resources, Inc.

3. Address of Operator
P.O. Box 590, Midland, Texas 79702

4. Well Location

Unit Letter D : 510 feet from the North line and 250 feet from the West line

Section 13 Township 16S Range 36E NMPM Lea County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3969' GL

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

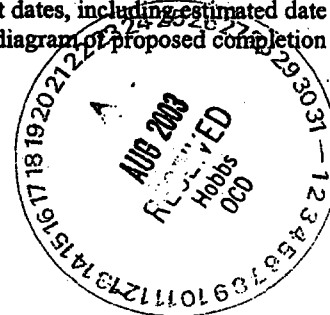
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: Plugback to KO and drill alternative BHL ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Permian Resources, Inc. submits the following attached Recap of Prior Activity on the Hilburn #3.



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Barbara Watson TITLE Engineer DATE 8/20/03

Type or print name: Barbara Watson E-mail address: bwatson@permianresourcesinc.com Telephone No. 915/685-0113
(This space for State use)

APPROVED BY Chris Williams TITLE DISTRICT SUPERVISOR/GENERAL MANAGER DATE AUG 22 2003
Conditions of approval, if any:

Hilburn No. 3
C-103

Below is a recap of prior activity on the Hilburn No. 3 for clarification purposes:

Originally Permitted Location

Surface Location: 510' FNL & 250' FWL, Section 13, T16S, R35E
Strawn Entry Point @ 11332' MD 660' FNL & 510' FWL, Section 13, T16S, R35E
End of Lateral BHL: 1980' FNL & 1980' FWL, Section 13, T16S, R35E

- 11/19/01 MIRU TMBR / Sharp Rig # 23. Spudded 17-1/2" hole @ 1:30 AM. Drilled to 490'. Ran 490' of 13-3/8", 54.5 #/ft, H-40, casing. Cemented with 510 sx Class "C" + 2% CaCl & 1/4 #/sx celloflake. Circulated 55 sx to pit.
- 11/30/01 Drilled 11" hole to 4825'. Ran and set 4825' of 8-5/8" (16 jts, 702' 32 #/ft, N-80 and 92 jts, 4126' 32 #/ft, J-55) casing. Cemented with 1400 sx 35/65 Poz "C" + 6% gel, 5% salt & 1/4 #/sx celloflake plus 250 sx Class "C". Total 1650 sx. TOC by TS @ 506'.
- 12/20/01 Reached TD @ 11,627' MD, 11, 584' TVD at BHL 648' FNL & 599' FWL. Encountered Strawn formation top @ 11,358' MD, 11,324' TVD at a BHL 664' FNL & 518' FWL. Ran Dual Induction / MSFL, Z-Density / CNL / GR. Strawn porosity deemed non-productive. **Plugged back to KO and drill to alternative BHL.** Mix & spot 50 sx Class "H" plug w/ 2/10% R-3 from 11,358' to 11,258'. Mix and spot 270 sx Class "H" plug w/ 9/10% D31 from 9,700' to 9,200'. Plan to KO and drill to alternative BHL encountering Strawn @ 11,506' MD, 11,269' TVD at 420' FNL & 1,296' FWL.
- 1/7/02 Reached TD @ 11,820' MD, 11, 571' TVD at BHL 416' FNL & 1,344' FWL. Encountered Strawn formation top @ 11,601' MD, 11,370' TVD at a BHL 419' FNL & 1,259' FWL. Ran Dual Induction / MSFL, Z-Density / CNL / GR. Strawn porosity deemed non-productive. **Proposed to plug back to TA and evaluate for alternative BHL.**
- 1/12/02 Mix & spot 50 sx Class "H" plug from 11,565' to 11,465'. Mix and spot 50 sx Class "H" plug from 9,753' to 9,653'.
- 1/13/02 ND BOP & RD TMBR / Sharp Rig # 23. Install capping flange on wellhead.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
Revised March 17, 1999

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Permian Resources, Inc.		² OGRID Number 25797
		³ API Number 30-025-35596
³ Property Code 25993	⁵ Property Name Hilburn	⁶ Well No. 3

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	16S	35E		510	North	250	West	Lea

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	16S	35E		990	North	3300	West	Lea

⁹ Proposed Pool
North Shoe Bar (Strawn)

¹⁰ Proposed Pool 2
North Shoe Bar (Wolfcamp)

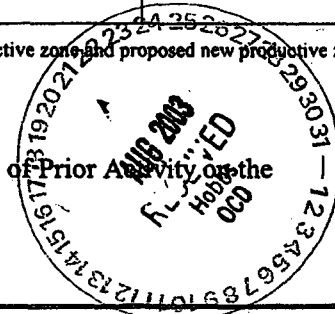
¹¹ Work Type Code D	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code P	¹⁵ Ground Level Elevation 3968
¹⁶ Multiple N	¹⁷ Proposed Depth 11,500	¹⁸ Formation Strawn	¹⁹ Contractor Tmbr Sharp	²⁰ Spud Date 08/09/2003

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2	13 3/8	48	450	450	Surface
11	8 5/8	24 & 32	4800	1050	Surface
7 7/8	5 1/2	17	11250	850	+4000

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Please find attached C-102, Re-entry Proposal to Drill 3rd BHL and a C-103 with Recap of Prior Activity on the Hilburn No. 3.



²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Barbara Watson</i> 32 Printed name: Barbara Watson Title: Operations Date: 08-18-2003 Phone: 915/685-0113		OIL CONSERVATION DIVISION Approved by: <i>[Signature]</i> Title: PETROLEUM ENGINEER Approval Date: SEP 15 2003 Expiration Date: Conditions of Approval: Attached ☐	
---	--	--	--

DISTRICT I
1885 N. French Dr., Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Artec, NM 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-35595	Pool Code 56270	Pool Name NORTH SHOE BAR (STRAWN)
Property Code 25993	Property Name HILBURN	Well Number 3
OGED No. 25797	Operator Name PERMIAN RESOURCES, INC.	Elevation 3969

Surface Location

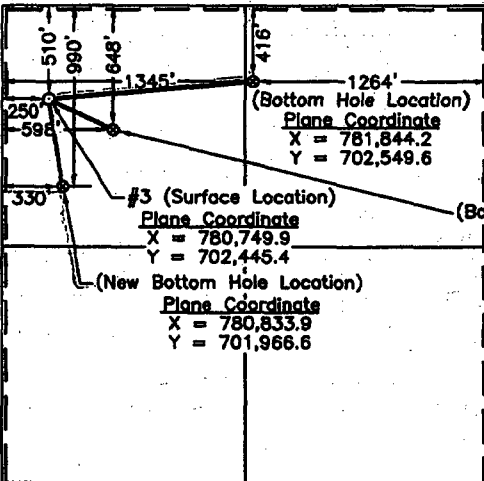
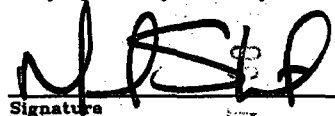
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	16 S	35 E		510	NORTH	250	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	13	16 S	35 E		990	NORTH	330	WEST	LEA

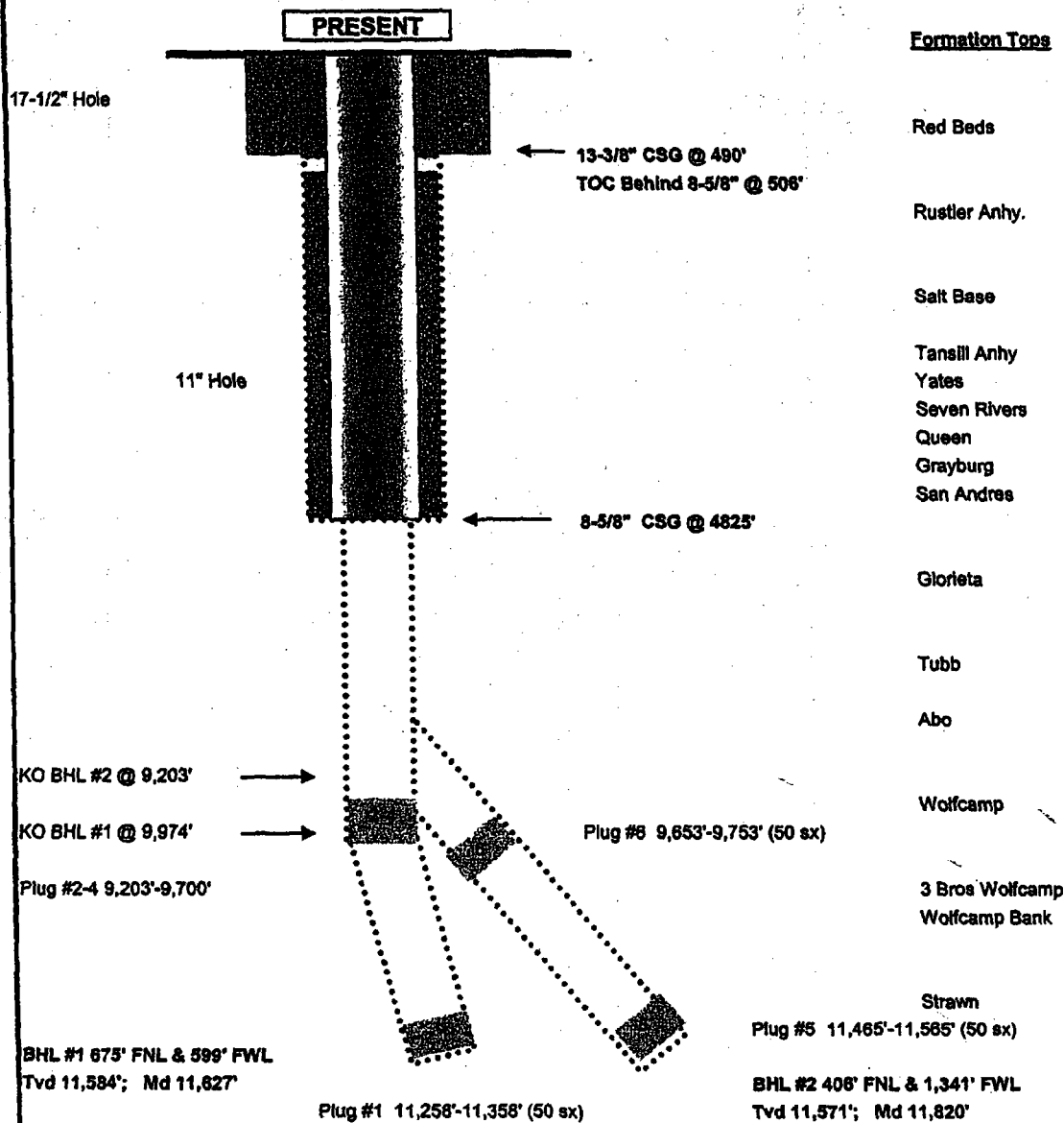
Dedicated Acres 158.3	Joint or Infill	Consolidation Code	Order No.
--------------------------	-----------------	--------------------	-----------

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

 NOTE: 1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.	Project Area 158.3 Acres NW/4 Section 13, T-16-S, R-35-E	OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.  Signature Michael Stewart Printed Name Agent Title August 20, 2003 Date SURVEYOR CERTIFICATION I, hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief. August 20, 2003 Date Surveyed Signature & Seal of Professional Surveyor LVA Num. 2001-1037-S Certificate No. MACON McDONALD 12185
--	---	--

**PERMIAN RESOURCES, INC.
WELLBORE DIAGRAM**

WELL NAME:	Hilburn No. 3			FIELD:	North Shoe Bar (Strawn)		
LOCATION:	510' FNL & 250' FWL, Sec 13, T-16-S, R-35-E			COUNTY:	Lea	STATE:	New Mexico
ELEVATION:	GL = 3988'; KB = 3987 (19' KB Corr)			SPUD DATE:	11/19/01	COMP DATE:	1/14/02
API#	30-025-35598-00-00			PREPARED BY:	M. Stewart		
	DEPTH	HOLE SIZE	SIZE	WEIGHT	GRADE	THREAD	TOC
CASING:	490	17-1/2"	13-3/8"	48 #	H-40	ST&C	Surface
CASING:	4825	11"	8-5/8"	32 #	N-80 & J-55	LT&C	506' TS
CASING:							
TUBING:							
TUBING:							



PERMIAN RESOURCES

Structure : Hilburn #3

Slot : slot #1

Field : Red Hills

Location : LEA COUNTY, NEW MEXICO

**BAKER
HUGHES**

INTEQ

WELL PROFILE DATA

Point	MD	Inc	Dir	TVD	North	East	V. Sect	Deg/100
KOP	9100.00	0.58	177.45	9098.78	-3.37	52.39	11.94	0.00
End of Build/Turn	9552.02	11.88	176.88	9547.40	-52.27	55.19	60.83	2.50
T.D. & Target	11633.20	11.88	176.88	11584.00	-480.00	80.00	486.62	0.00

STRUCTURE SET-UP REFERENCE

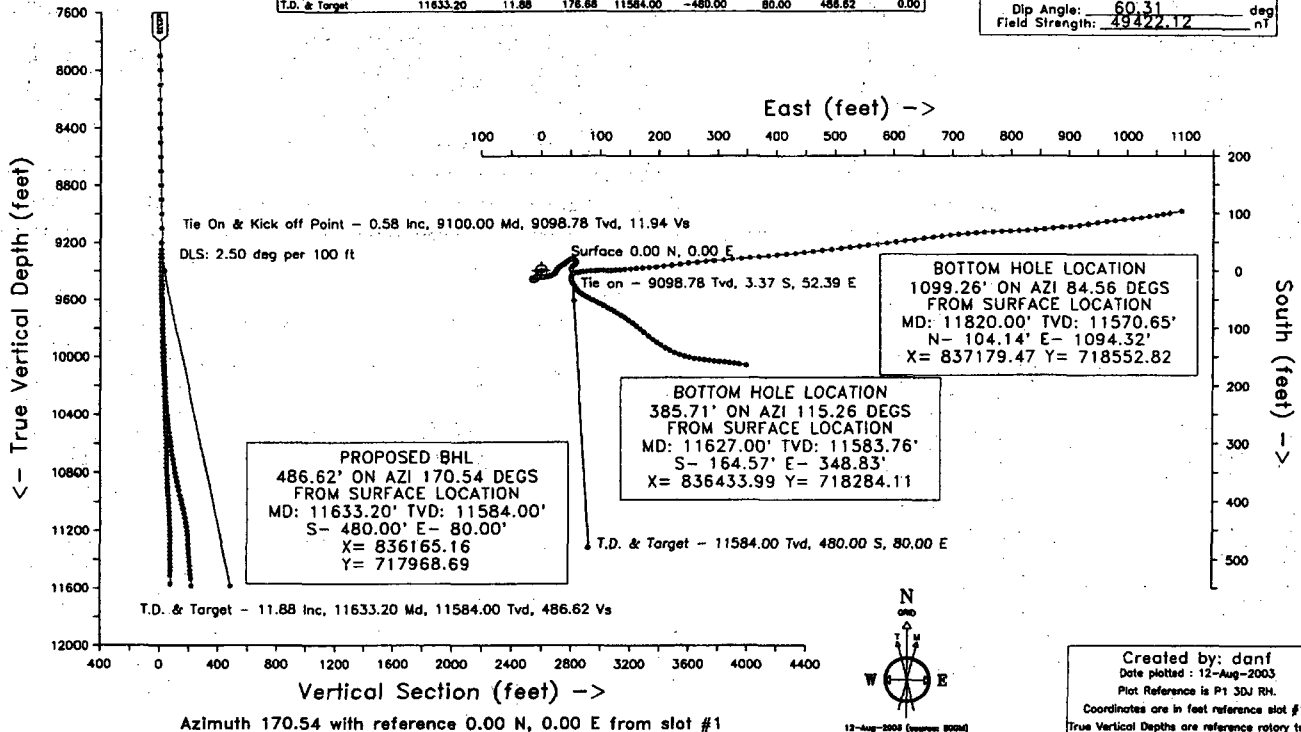
LAT : 32 58 13.000 N
LONG : 103 14 15.000 W
X = 836085.155 Y = 718448.687

PROJECTION: MERCATOR

Mercator Zone: New Mexico East
Spheroid Used: Clarke - 1866

Data Source: BGGM

Dip Angle: 60.31 deg
Field Strength: 49422.12 nT



Hilburn No. 3 Re-Entry Proposal drill to 3rd BHL

Proposal to Re-enter previously TA'd wellbore and directionally drill to the Strawn formation at the following locations:

Surface Location:	510' FNL & 250' FWL, Section 13, T16S, R35E
Strawn Entry Point @ 11,285' TVD	
Bottom Hole Location	990' FNL & 330' FWL, Section 13, T16S, R35E @ 11,633' MD, 11,584' TVD.

Propose following:

- 1 MIRU WSU. RIH w/ 2-3/8" tbg and tag existing TOC plug @ 9,653'. Circulate hole with mud and spot 200 sx Class "C" KO plug w/ 9/10% Halad-322 from 9,653' to 9,050'. RD WSU.
- 2 MIRU TMBR / Sharp Rig # 23. NU 5000# double ram & Hydril annular BOP. PU 7-7/8" bit w/ motor and directional tools. KO cement plug @ 9,050' and directionally drill 7-7/8" hole to test Strawn formation. Proposed TD @ 11,633' MD, 11,584' TVD at a BHL of 990' FNL & 330' FWL, Section 13, T16S, R35E, Lea County, NM. Anticipated Strawn entry point @ 11,285' TVD.
- 3 Potential DST's in Wolfcamp formation (10,500') and Strawn formation. Open-hole log and evaluate.
- 4 If productive hydrocarbons are encountered, run $\pm$ 11,633' of 5-1/2", 17 #/ft, N-80 and P110 casing. DV tool @ $\pm$ 9400'. Cement 1st stage with $\pm$ 350 sx Class Super "H" + 200 sx Premium Plus cement to circulate DV tool. Cement 2nd stage with $\pm$ 510 sx Interfill "H" + 150 sx Premium Plus cement sufficient to bring cement to $\pm$ 4,000' inside existing 8-5/8" casing. Total 1,210 sx cement. RD TMBR/Sharp Rig # 23.
- 5 Complete as Strawn producing well pending NMOCD hearing for unorthodox (non-standard) well location in North Shoe Bar (Strawn) pool or as orthodox (standard) well location in North Shoe Bar (Strawn) pool should Permian be successful in obtaining revised field rules for 80 acre proration units with 330' well spacing from outer boundary consistent with off-setting Strawn pool field rules.

Hilburn No. 3
C-103

Below is a recap of prior activity on the Hilburn No. 3 for clarification purposes:

Originally Permitted Location

Surface Location:

510' FNL & 250' FWL, Section 13, T16S, R35E

Strawn Entry Point @ 11332' MD

660' FNL & 510' FWL, Section 13, T16S, R35E

End of Lateral BHL:

1980' FNL & 1980' FWL, Section 13, T16S, R35E

- 11/19/01 MIRU TMBR / Sharp Rig # 23. Spudded 17-1/2" hole @ 1:30 AM. Drilled to 490'. Ran 490' of 13-3/8", 54.5 #/ft, H-40, casing. Cemented with 510 sx Class "C" + 2% CaCl & 1/4 #/sx celloflake. Circulated 55 sx to pit.
- 11/30/01 Drilled 11" hole to 4825'. Ran and set 4825' of 8-5/8" (16 jts, 702' 32 #/ft, N-80 and 92 jts, 4126' 32 #/ft, J-55) casing. Cemented with 1400 sx 35/65 Poz "C" + 6% gel, 5% salt & 1/4 #/sx celloflake plus 250 sx Class "C". Total 1650 sx. TOC by TS @ 506'.
- 12/20/01 Reached TD @ 11,627' MD, 11,584' TVD at BHL 675' FNL & 599' FWL. Encountered Strawn formation top @ 11,358' MD, 11,324' TVD at a BHL 664' FNL & 518' FWL. Ran Dual Induction / MSFL, Z-Density / CNL / GR. Strawn porosity deemed non-productive. **Plugged back to KO and drill to alternative BHL.** Mix & spot 50 sx Class "H" plug w/ 2/10% R-3 from 11,358' to 11,258'. Mix and spot 270 sx Class "H" plug w/ 9/10% D31 from 9,700' to 9,200'. Plan to KO and drill to alternative BHL encountering Strawn @ 11,506' MD, 11,269' TVD at 420' FNL & 1,296' FWL.
- 1/7/02 Reached TD @ 11,820' MD, 11,571' TVD at BHL 406' FNL & 1,344' FWL. Encountered Strawn formation top @ 11,601' MD, 11,370' TVD at a BHL 419' FNL & 1,259' FWL. Ran Dual Induction / MSFL, Z-Density / CNL / GR. Strawn porosity deemed non-productive. **Proposed to plug back to TA and evaluate for alternative BHL.**
- 1/12/02 Mix & spot 50 sx Class "H" plug from 11,565' to 11,465'. Mix and spot 50 sx Class "H" plug from 9,753' to 9,653'.
- 1/13/02 ND BOP & RD TMBR / Sharp Rig # 23. Install capping flange on wellhead.

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised June 10, 2003

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-35596
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Hilburn Property No. 25993
8. Well Number #2 <u>3</u>
9. OGRID Number 025797
10. Pool name or Wildcat Shoebar: Strawn, Northeast & Shoebar; Wolfcamp, North

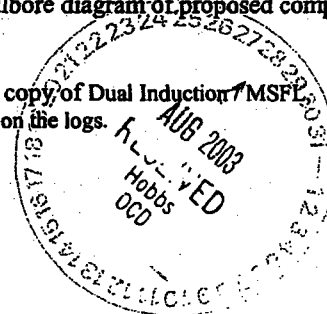
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☐ Gas Well ☐ Other	
2. Name of Operator Permian Resources, Inc.	
3. Address of Operator P.O. Box 590, Midland, Texas 79702	
4. Well Location Unit Letter <u>D</u> : <u>510</u> feet from the <u>North</u> line and <u>250</u> feet from the <u>West</u> line Section <u>13</u> Township <u>16S</u> Range <u>36E</u> NMPM Lea County 11. Elevation (Show whether DR, RKB, RT, GR, etc.) <u>3969' GL</u>	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐ TEMPORARILY ABANDON ☐ CHANGE PLANS ☐ PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐ OTHER: ☐	SUBSEQUENT REPORT OF: REMEDIAL WORK ☐ ALTERING CASING ☐ COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐ CASING TEST AND CEMENT JOB ☐ OTHER: Plugback to KO and drill alternative BHL ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Permian Resources, Inc. submits the following plugback on the Hilburn #3 along with one copy of Dual Induction / MSFL Z-Density / CNL / GR logs and Curvature Survey. Permian Resources, Inc. requests confidentiality on the logs.

12/20/01 Reached TD @ 11,627' MD, 11,584' TVD at BHL 675' FNL & 599' FWL.
Encountered Strawn formation top @ 11,358' MD, 11,324' TVD at a BHL 664' FNL & 518' FWL.
Ran Dual Induction / MSFL, Z-Density / CNL / GR.
Strawn porosity deemed non-productive. Plugged back to KO and drill to alternative BHL.
Mix & spot 50 sx Class "H" plug w/ 2/10% R-3 from 11,358' to 11,258'.
Mix and spot 270 sx Class "H" plug w/ 9/10% D31 from 9,700' to 9,200'.
Plan to KO and drill to alternative BHL encountering Strawn @ 11,506' MD, 11,269' TVD at 420' FNL & 1,296' FWL.



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Barbara Watson TITLE Regulatory & Operations DATE 8/20/03

Type or print name: Barbara Watson E-mail address: bwatson@permianresourcesinc.com Telephone No. 915/685-0113
(This space for State use)

APPROVED BY [Signature] TITLE PETROLEUM ENGINEER DATE SEP 15 2003
Conditions of approval, if any:

Results of Directional Survey

30-025-35596-01

PERMIAN RESOURCES INC
HILLBURN # 3
Side Track # 1

SIDE TRACK #1

	MD	N/S	E/W	VD
	9900	-14.34	50.77	9898.7
TOP PERFS/OH	9934	-15.01	50.78	9932.69
	9934	-15.01	50.78	9932.69
	11577	-162.26	336.42	11535.38
BOT PERFS/OH	11627	-164.57	348.83	11583.76
	11627	-164.57	348.83	11583.76

NEXT TO LAST	11577	-162.26	336.42	11535.38
LAST READING	11627	-164.57	348.83	11583.76
TD	11627	-164.57	348.83	11583.76

Surface Location	510	FN	250	FW
Projected BHL	675	FN	599	FW
Location of				
Top Perfs/OH	525	FN	301	FW
Bottom Perfs/OH	675	FN	599	FW

SUMMARY of Subsurface Locations

Surface Location	D-13-16S-36E	510	FN	250	FW	Vert. Depth
Top Perfs/OH	D-13-16S-36E	525	FN	301	FW	9932.69
Bottom Perfs/OH	D-13-16S-36E	675	FN	599	FW	11583.76
Projected TD	D-13-16S-36E	675	FN	599	FW	11583.76

Results of Directional Survey

30-025-35596-02

PERMIAN RESOURCES INC

HILLBURN # 3

Side Track # 2

SIDE TRACK
#2

	MD	N/S	E/W	VD
	9938	8.00	208.09	9915.13
TOP PERFS/OH	9969	9.63	221.73	9942.92
	9969	9.63	221.73	9942.92
	11758	100.76	1073.69	11512.28
BOT PERFS/OH	11820	104.14	1094.32	11570.65
	11820	104.14	1094.32	11570.65

NEXT TO LAST	11758	100.76	1073.69	11512.28
LAST READING	11820	104.14	1094.32	11570.65
TD	11820	104.14	1094.32	11570.65

Surface Location	510	FN	250	FW
Projected BHL	406	FN	1344	FW
Location of				
Top Perfs/OH	500	FN	472	FW
Bottom Perfs/OH	406	FN	1344	FW

SUMMARY of Subsurface Locations

Surface Location	D-13-16S-36E	510	FN	250	FW	Vert. Depth
Top Perfs/OH	D-13-16S-36E	500	FN	472	FW	9942.92
Bottom Perfs/OH	C-13-16S-36E	406	FN	1344	FW	11570.65
Projected TD	C-13-16S-36E	406	FN	1344	FW	11570.65

Results of Directional Survey

30-025-35596-03

PERMIAN RESOURCES INC
HILLBURN # 3
Side Track # 3

Side Track 3

	MD	N/S	E/W	VD
	9000	-2.41	52.29	8998.78
TOP PERFS/OH	9100	-5.82	52.95	9098.68
	9232	-10.33	53.83	9230.55
	11540	-460.31	77.48	11493.24
BOT PERFS/OH	11587	-470.48	77.41	11539.12
	11587	-470.48	77.41	11539.12

NEXT TO LAST	11540	-460.31	77.48	11493.24
LAST READING	11587	-470.48	77.41	11539.12
TD	11587	-470.48	77.41	11539.12

Surface Location	510	FN	250	FW
Projected BHL	980	FN	327	FW
Location of				
Top Perfs/OH	516	FN	303	FW
Bottom Perfs/OH	980	FN	327	FW

SUMMARY of Subsurface Locations

Surface Location	D-13-16S-36E	510	FN	250	FW	Vert. Depth
Top Perfs/OH	D-13-16S-36E	516	FN	303	FW	9098.68
Bottom Perfs/OH	D-13-16S-36E	980	FN	327	FW	11539.12
Projected TD	D-13-16S-36E	980	FN	327	FW	11539.12

TMBR/SHARP DRILLING INC.
HILBURN #3

slot #1

LEA COUNTY, NEW MEXICO

GYRO To Kof
09932.69'

SURVEY LISTING

by
Baker Hughes INTEQ

Your ref : GYRO
Our ref : svyl861
License :

Date printed : 16-Jan-2002
Date created : 10-Dec-2001
Last revised : 2-Jan-2002

Field is centred on n32 58 13.000,w103 14 15
Structure is centred on n32 58 13.000,w103 14 15

Slot location is n32 58 13.000,w103 14 15.000
Slot Grid coordinates are N 718448.687, E 836085.155
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is Grid North

SURFACE 510'FWL + 250'FWL
Kof 09933' 525'FWL + 300.78'FWL

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	0.00	836085.15	718448.69
100.00	0.20	240.68	100.00	0.09S	0.15W	0.20	-0.11	836085.00	718448.60
200.00	0.35	224.93	200.00	0.39S	0.52W	0.17	-0.33	836084.63	718448.30
300.00	0.40	231.87	300.00	0.82S	1.01W	0.07	-0.61	836084.14	718447.87
400.00	0.50	252.07	399.99	1.17S	1.70W	0.19	-1.11	836083.45	718447.52
500.00	0.25	201.37	499.99	1.51S	2.19W	0.39	-1.44	836082.96	718447.18
600.00	0.30	192.82	599.99	1.96S	2.33W	0.06	-1.38	836082.82	718446.72
700.00	0.32	181.87	699.99	2.50S	2.40W	0.06	-1.24	836082.76	718446.19
800.00	0.25	168.63	799.99	2.99S	2.37W	0.10	-1.01	836082.79	718445.70
900.00	0.23	175.60	899.99	3.41S	2.31W	0.04	-0.80	836082.85	718445.28
1000.00	0.25	210.08	999.99	3.79S	2.40W	0.14	-0.74	836082.75	718444.89
1100.00	0.27	202.72	1099.98	4.20S	2.60W	0.04	-0.76	836082.55	718444.49
1200.00	0.32	206.33	1199.98	4.67S	2.82W	0.05	-0.78	836082.34	718444.02
1300.00	0.58	216.43	1299.98	5.33S	3.24W	0.27	-0.91	836081.91	718443.36
1400.00	0.75	222.87	1399.97	6.21S	3.99W	0.19	-1.25	836081.17	718442.47
1500.00	0.88	227.32	1499.96	7.21S	5.00W	0.14	-1.80	836080.16	718441.47
1600.00	0.78	227.65	1599.95	8.19S	6.06W	0.10	-2.40	836079.09	718440.49
1700.00	0.78	228.97	1699.94	9.10S	7.08W	0.02	-2.98	836078.07	718439.59
1800.00	0.63	228.93	1799.94	9.91S	8.01W	0.15	-3.52	836077.15	718438.78
1900.00	0.75	241.08	1899.93	10.58S	9.00W	0.19	-4.17	836076.16	718438.10
2000.00	0.85	244.57	1999.92	11.22S	10.24W	0.11	-5.07	836074.92	718437.47
2100.00	1.07	255.68	2099.91	11.77S	11.81W	0.29	-6.30	836073.34	718436.92
2200.00	1.10	241.68	2199.89	12.45S	13.56W	0.27	-7.65	836071.59	718436.23
2300.00	0.67	208.97	2299.88	13.42S	14.69W	0.65	-8.31	836070.46	718435.27
2400.00	0.70	195.48	2399.87	14.52S	15.14W	0.16	-8.29	836070.02	718434.17

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 52.95 on azimuth 106.47 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 112.90 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
2500.00	0.62	145.25	2499.86	15.55S	14.99W	0.56	-7.76	836070.16	718433.13
2600.00	0.80	109.32	2599.86	16.23S	14.02W	0.47	-6.60	836071.13	718432.46
2700.00	0.98	95.37	2699.84	16.54S	12.51W	0.28	-5.09	836072.64	718432.15
2800.00	1.03	67.98	2799.83	16.28S	10.83W	0.48	-3.64	836074.32	718432.40
2900.00	1.10	50.53	2899.81	15.34S	9.26W	0.33	-2.56	836075.90	718433.35
3000.00	1.27	40.18	2999.79	13.88S	7.80W	0.27	-1.78	836077.36	718434.81
3100.00	1.38	41.87	3099.76	12.14S	6.28W	0.12	-1.06	836078.87	718436.55
3200.00	1.58	68.68	3199.73	10.74S	4.19W	0.71	0.32	836080.96	718437.95
3300.00	1.40	81.53	3299.70	10.06S	1.70W	0.38	2.35	836083.45	718438.63
3400.00	0.95	106.18	3399.68	10.11S	0.30E	0.67	4.21	836085.46	718438.58
3500.00	1.08	112.42	3499.66	10.70S	1.97E	0.17	5.98	836087.13	718437.99
3600.00	1.42	85.03	3599.64	10.95S	4.08E	0.68	8.02	836089.23	718437.74
3700.00	1.40	76.60	3699.61	10.56S	6.50E	0.21	10.10	836091.65	718438.13
3800.00	1.68	77.03	3799.57	9.95S	9.12E	0.28	12.27	836094.27	718438.74
3900.00	1.65	81.10	3899.53	9.40S	11.97E	0.12	14.68	836097.12	718439.29
4000.00	1.48	82.05	3999.49	9.00S	14.67E	0.17	17.01	836099.82	718439.69
4100.00	1.52	72.43	4099.46	8.42S	17.21E	0.25	19.13	836102.37	718440.27
4200.00	1.35	60.02	4199.43	7.43S	19.50E	0.35	20.85	836104.65	718441.26
4300.00	1.42	50.58	4299.40	6.05S	21.47E	0.24	22.14	836106.63	718442.64
4400.00	1.47	45.62	4399.37	4.37S	23.35E	0.13	23.21	836108.50	718444.32
4500.00	1.10	35.15	4499.34	2.69S	24.82E	0.44	23.91	836109.97	718446.00
4600.00	1.15	29.32	4599.32	1.03S	25.86E	0.12	24.22	836111.02	718447.66
4700.00	1.17	19.53	4699.30	0.81N	26.69E	0.20	24.28	836111.85	718449.50
4800.00	1.05	26.80	4799.28	2.59N	27.45E	0.18	24.28	836112.60	718451.28
4900.00	1.00	41.07	4899.27	4.07N	28.44E	0.26	24.61	836113.59	718452.75

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 52.95 on azimuth 106.47 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 112.90 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
5000.00	1.00	45.67	4999.25	5.33N	29.63E	0.08	25.22	836114.79	718454.02
5100.00	0.90	52.80	5099.24	6.42N	30.88E	0.15	25.95	836116.04	718455.11
5200.00	0.97	54.23	5199.22	7.39N	32.20E	0.07	26.78	836117.35	718456.08
5300.00	1.02	55.37	5299.21	8.39N	33.61E	0.05	27.70	836118.77	718457.08
5400.00	1.10	53.58	5399.19	9.46N	35.12E	0.09	28.67	836120.27	718458.15
5500.00	1.32	56.78	5499.17	10.67N	36.86E	0.23	29.80	836122.01	718459.35
5600.00	1.03	51.02	5599.15	11.86N	38.52E	0.31	30.87	836123.67	718460.55
5700.00	1.13	50.05	5699.13	13.06N	39.97E	0.10	31.74	836125.13	718461.75
5800.00	1.25	52.75	5799.11	14.35N	41.60E	0.13	32.73	836126.75	718463.04
5900.00	1.07	54.13	5899.09	15.56N	43.22E	0.18	33.76	836128.38	718464.25
6000.00	1.00	51.65	5999.07	16.65N	44.66E	0.08	34.66	836129.82	718465.34
6100.00	0.82	47.33	6099.06	17.68N	45.87E	0.19	35.38	836131.03	718466.36
6200.00	0.68	51.32	6199.05	18.53N	46.86E	0.15	35.96	836132.02	718467.22
6300.00	0.57	64.32	6299.05	19.12N	47.77E	0.18	36.57	836132.93	718467.81
6400.00	0.57	67.78	6399.04	19.52N	48.68E	0.03	37.25	836133.84	718468.21
6500.00	0.50	76.35	6499.04	19.81N	49.57E	0.11	37.95	836134.72	718468.50
6600.00	0.48	69.03	6599.03	20.07N	50.38E	0.07	38.60	836135.54	718468.75
6700.00	0.48	82.00	6699.03	20.27N	51.19E	0.11	39.26	836136.34	718468.96
6800.00	0.40	94.37	6799.03	20.31N	51.95E	0.12	39.95	836137.11	718468.99
6900.00	0.53	97.35	6899.02	20.22N	52.76E	0.13	40.73	836137.91	718468.91
7000.00	0.50	99.15	6999.02	20.09N	53.65E	0.03	41.60	836138.80	718468.78
7100.00	0.53	117.92	7099.02	19.81N	54.49E	0.17	42.49	836139.64	718468.49
7200.00	0.52	112.27	7199.01	19.42N	55.31E	0.05	43.40	836140.47	718468.10
7300.00	0.73	120.40	7299.01	18.92N	56.28E	0.23	44.48	836141.44	718467.61
7400.00	0.80	129.52	7399.00	18.16N	57.37E	0.14	45.79	836142.53	718466.84

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 52.95 on azimuth 106.47 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 112.90 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
7500.00	1.12	144.22	7498.98	16.92N	58.48E	0.40	47.29	836143.64	718465.61
7600.00	1.07	169.27	7598.96	15.21N	59.23E	0.48	48.64	836144.38	718463.90
7700.00	1.17	208.87	7698.95	13.40N	58.91E	0.76	49.05	836144.06	718462.08
7800.00	1.15	215.62	7798.93	11.69N	57.83E	0.14	48.73	836142.99	718460.37
7900.00	1.30	226.17	7898.90	10.09N	56.43E	0.27	48.06	836141.58	718458.77
8000.00	1.32	229.13	7998.88	8.55N	54.74E	0.07	47.10	836139.89	718457.23
8100.00	1.17	231.92	8098.85	7.16N	53.06E	0.16	46.09	836138.22	718455.85
8200.00	1.05	226.60	8198.84	5.90N	51.59E	0.16	45.23	836136.75	718454.59
8300.00	0.60	208.40	8298.82	4.81N	50.68E	0.52	44.81	836135.83	718453.50
8400.00	0.52	176.15	8398.82	3.90N	50.46E	0.32	44.97	836135.62	718452.59
8500.00	0.63	165.22	8498.82	2.92N	50.63E	0.15	45.51	836135.79	718451.60
8600.00	0.72	161.60	8598.81	1.79N	50.97E	0.10	46.26	836136.13	718450.48
8700.00	0.65	158.98	8698.80	0.66N	51.37E	0.08	47.07	836136.53	718449.35
8800.00	0.65	164.25	8798.79	0.41S	51.73E	0.06	47.81	836136.88	718448.27
8900.00	0.60	161.47	8898.79	1.45S	52.05E	0.06	48.51	836137.20	718447.23
9000.00	0.53	170.52	8998.78	2.41S	52.29E	0.11	49.11	836137.45	718446.28
9100.00	0.58	177.45	9098.78	3.37S	52.39E	0.08	49.57	836137.55	718445.32
9200.00	0.60	168.80	9198.77	4.39S	52.52E	0.09	50.08	836137.67	718444.30
9300.00	0.82	184.87	9298.77	5.61S	52.56E	0.29	50.60	836137.71	718443.07
9400.00	0.77	201.58	9398.76	6.95S	52.25E	0.24	50.84	836137.40	718441.73
9500.00	1.02	198.88	9498.74	8.42S	51.71E	0.25	50.91	836136.87	718440.27
9600.00	0.83	197.08	9598.73	9.95S	51.21E	0.19	51.05	836136.37	718438.73
9700.00	0.73	189.53	9698.72	11.27S	50.89E	0.14	51.27	836136.05	718437.41
9800.00	0.83	181.28	9798.71	12.63S	50.77E	0.15	51.69	836135.93	718436.06
9900.00	1.13	179.00	9898.70	14.34S	50.77E	0.30	52.35	836135.93	718434.35

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 52.95 on azimuth 106.47 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 112.90 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

TMBR/SHARP DRILLING INC.
HILBURN #3, slot #1
LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 5
Your ref : GYRO
Last revised : 2-Jan-2002

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES	Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	North
9934.00	1.15	180.10	9932.69	15.01S	50.78E	0.09	52.62	836135.93 718433.67

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.
Bottom hole distance is 52.95 on azimuth 106.47 degrees from wellhead.
Vertical section is from N 0.00 E 0.00 on azimuth 112.90 degrees.
Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

TMBR/SHARP DRILLING INC.
HILBORN #3, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 6
Your ref : GYRO
Last revised : 2-Jan-2002

NO Targets associated with this wellpath

001-1012 11. 7 30

TMBR/SHARP DRILLING INC.
HILBURN #3

slot #1

LEA COUNTY, NEW MEXICO

SURVEY LISTING

by
Baker Hughes INTEQ

Your ref : MWD
Our ref : svy1863
License :

BHL #1
SUR: D-13-16s-36e, 510/N & 250/W
SIDE TRACK 1
BHL: D-13-16s-36e, 675/N & 599/W
API # 30-025-35596

Date printed : 16-Jan-2002
Date created : 10-Dec-2001
Last revised : 16-Jan-2002

Field is centred on n32 58 13.000,w103 14 15
Structure is centred on n32 58 13.000,w103 14 15

Slot location is n32 58 13.000,w103 14 15.000
Slot Grid coordinates are N 718448.687, E 836085.155
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is Grid North

SURFACE 510' FNL + 250' FNL

BHL #1 @

11627 MD

11583.76' TVD

674.57' FNL + 598.83' FNL

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	0.00	836085.15	718448.69
100.00	0.20	240.68	100.00	0.09S	0.15W	0.20	-0.11	836085.00	718448.60
200.00	0.35	224.93	200.00	0.39S	0.52W	0.17	-0.33	836084.63	718448.30
300.00	0.40	231.87	300.00	0.82S	1.01W	0.07	-0.61	836084.14	718447.87
400.00	0.50	252.07	399.99	1.17S	1.70W	0.19	-1.11	836083.45	718447.52
500.00	0.25	201.37	499.99	1.51S	2.19W	0.39	-1.44	836082.96	718447.18
600.00	0.30	192.82	599.99	1.96S	2.33W	0.06	-1.38	836082.82	718446.72
700.00	0.32	181.87	699.99	2.50S	2.40W	0.06	-1.24	836082.76	718446.19
800.00	0.25	168.63	799.99	2.99S	2.37W	0.10	-1.01	836082.79	718445.70
900.00	0.23	175.60	899.99	3.41S	2.31W	0.04	-0.80	836082.85	718445.28
1000.00	0.25	210.08	999.99	3.79S	2.40W	0.14	-0.74	836082.75	718444.89
1100.00	0.27	202.72	1099.98	4.20S	2.60W	0.04	-0.76	836082.55	718444.49
1200.00	0.32	206.33	1199.98	4.67S	2.82W	0.05	-0.78	836082.34	718444.02
1300.00	0.58	216.43	1299.98	5.33S	3.24W	0.27	-0.91	836081.91	718443.36
1400.00	0.75	222.87	1399.97	6.21S	3.99W	0.19	-1.25	836081.17	718442.47
1500.00	0.88	227.32	1499.96	7.21S	5.00W	0.14	-1.80	836080.16	718441.47
1600.00	0.78	227.65	1599.95	8.19S	6.06W	0.10	-2.40	836079.09	718440.49
1700.00	0.78	228.97	1699.94	9.10S	7.08W	0.02	-2.98	836078.07	718439.59
1800.00	0.63	228.93	1799.94	9.91S	8.01W	0.15	-3.52	836077.15	718438.78
1900.00	0.75	241.08	1899.93	10.58S	9.00W	0.19	-4.17	836076.16	718438.10
2000.00	0.85	244.57	1999.92	11.22S	10.24W	0.11	-5.07	836074.92	718437.47
2100.00	1.07	255.68	2099.91	11.77S	11.81W	0.29	-6.30	836073.34	718436.92
2200.00	1.10	241.68	2199.89	12.45S	13.56W	0.27	-7.65	836071.59	718436.23
2300.00	0.67	208.97	2299.88	13.42S	14.69W	0.65	-8.31	836070.46	718435.27
2400.00	0.70	195.48	2399.87	14.52S	15.14W	0.16	-8.29	836070.02	718434.17

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 385.71 on azimuth 115.26 degrees from wellhead.

Vertical section is from S 0.00 W 0.00 on azimuth 112.90 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

2001 1 18 6:12 31

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
2500.00	0.62	145.25	2499.86	15.55S	14.99W	0.56	-7.76	836070.16	718433.13
2600.00	0.80	109.32	2599.86	16.23S	14.02W	0.47	-6.60	836071.13	718432.46
2700.00	0.98	95.37	2699.84	16.54S	12.51W	0.28	-5.09	836072.64	718432.15
2800.00	1.03	67.98	2799.83	16.28S	10.83W	0.48	-3.64	836074.32	718432.40
2900.00	1.10	50.53	2899.81	15.34S	9.26W	0.33	-2.56	836075.90	718433.35
3000.00	1.27	40.18	2999.79	13.88S	7.80W	0.27	-1.78	836077.36	718434.81
3100.00	1.38	41.87	3099.76	12.14S	6.28W	0.12	-1.06	836078.87	718436.55
3200.00	1.58	68.68	3199.73	10.74S	4.19W	0.71	0.32	836080.96	718437.95
3300.00	1.40	81.53	3299.70	10.06S	1.70W	0.38	2.35	836083.45	718438.63
3400.00	0.95	106.18	3399.68	10.11S	0.30E	0.67	4.21	836085.46	718438.58
3500.00	1.08	112.42	3499.66	10.70S	1.97E	0.17	5.98	836087.13	718437.99
3600.00	1.42	85.03	3599.64	10.95S	4.08E	0.68	8.02	836089.23	718437.74
3700.00	1.40	76.60	3699.61	10.56S	6.50E	0.21	10.10	836091.65	718438.13
3800.00	1.68	77.03	3799.57	9.95S	9.12E	0.28	12.27	836094.27	718438.74
3900.00	1.65	81.10	3899.53	9.40S	11.97E	0.12	14.68	836097.12	718439.29
4000.00	1.48	82.05	3999.49	9.00S	14.67E	0.17	17.01	836099.82	718439.69
4100.00	1.52	72.43	4099.46	8.42S	17.21E	0.25	19.13	836102.37	718440.27
4200.00	1.35	60.02	4199.43	7.43S	19.50E	0.35	20.85	836104.65	718441.26
4300.00	1.42	50.58	4299.40	6.05S	21.47E	0.24	22.14	836106.63	718442.64
4400.00	1.47	45.62	4399.37	4.37S	23.35E	0.13	23.21	836108.50	718444.32
4500.00	1.10	35.15	4499.34	2.69S	24.82E	0.44	23.91	836109.97	718446.00
4600.00	1.15	29.32	4599.32	1.03S	25.86E	0.12	24.22	836111.02	718447.66
4700.00	1.17	19.53	4699.30	0.81N	26.69E	0.20	24.28	836111.85	718449.50
4800.00	1.05	26.80	4799.28	2.59N	27.45E	0.18	24.28	836112.60	718451.28
4900.00	1.00	41.07	4899.27	4.07N	28.44E	0.26	24.61	836113.59	718452.75

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 385.71 on azimuth 115.26 degrees from wellhead.

Vertical section is from S 0.00 W 0.00 on azimuth 112.90 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES		Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting Northing	
5000.00	1.00	45.67	4999.25	5.33N	29.63E	0.08	25.22	836114.79	718454.02
5100.00	0.90	52.80	5099.24	6.42N	30.88E	0.15	25.95	836116.04	718455.11
5200.00	0.97	54.23	5199.22	7.39N	32.20E	0.07	26.78	836117.35	718456.08
5300.00	1.02	55.37	5299.21	8.39N	33.61E	0.05	27.70	836118.77	718457.08
5400.00	1.10	53.58	5399.19	9.46N	35.12E	0.09	28.67	836120.27	718458.15
5500.00	1.32	56.78	5499.17	10.67N	36.86E	0.23	29.80	836122.01	718459.35
5600.00	1.03	51.02	5599.15	11.86N	38.52E	0.31	30.87	836123.67	718460.55
5700.00	1.13	50.05	5699.13	13.06N	39.97E	0.10	31.74	836125.13	718461.75
5800.00	1.25	52.75	5799.11	14.35N	41.60E	0.13	32.73	836126.75	718463.04
5900.00	1.07	54.13	5899.09	15.56N	43.22E	0.18	33.76	836128.38	718464.25
6000.00	1.00	51.65	5999.07	16.65N	44.66E	0.08	34.66	836129.82	718465.34
6100.00	0.82	47.33	6099.06	17.68N	45.87E	0.19	35.38	836131.03	718466.36
6200.00	0.68	51.32	6199.05	18.53N	46.86E	0.15	35.96	836132.02	718467.22
6300.00	0.57	64.32	6299.05	19.12N	47.77E	0.18	36.57	836132.93	718467.81
6400.00	0.57	67.78	6399.04	19.52N	48.68E	0.03	37.25	836133.84	718468.21
6500.00	0.50	76.35	6499.04	19.81N	49.57E	0.11	37.95	836134.72	718468.50
6600.00	0.48	69.03	6599.03	20.07N	50.38E	0.07	38.60	836135.54	718468.75
6700.00	0.48	82.00	6699.03	20.27N	51.19E	0.11	39.26	836136.34	718468.96
6800.00	0.40	94.37	6799.03	20.31N	51.95E	0.12	39.95	836137.11	718468.99
6900.00	0.53	97.35	6899.02	20.22N	52.76E	0.13	40.73	836137.91	718468.91
7000.00	0.50	99.15	6999.02	20.09N	53.65E	0.03	41.60	836138.80	718468.78
7100.00	0.53	117.92	7099.02	19.81N	54.49E	0.17	42.49	836139.64	718468.49
7200.00	0.52	112.27	7199.01	19.42N	55.31E	0.05	43.40	836140.47	718468.10
7300.00	0.73	120.40	7299.01	18.92N	56.28E	0.23	44.48	836141.44	718467.61
7400.00	0.80	129.52	7399.00	18.16N	57.37E	0.14	45.79	836142.53	718466.84

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 385.71 on azimuth 115.26 degrees from wellhead.

Vertical section is from S 0.00 W 0.00 on azimuth 112.90 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
7500.00	1.12	144.22	7498.98	16.92N	58.48E	0.40	47.29	836143.64	718465.61
7600.00	1.07	169.27	7598.96	15.21N	59.23E	0.48	48.64	836144.38	718463.90
7700.00	1.17	208.87	7698.95	13.40N	58.91E	0.76	49.05	836144.06	718462.08
7800.00	1.15	215.62	7798.93	11.69N	57.83E	0.14	48.73	836142.99	718460.37
7900.00	1.30	226.17	7898.90	10.09N	56.43E	0.27	48.06	836141.58	718458.77
8000.00	1.32	229.13	7998.88	8.55N	54.74E	0.07	47.10	836139.89	718457.23
8100.00	1.17	231.92	8098.85	7.16N	53.06E	0.16	46.09	836138.22	718455.85
8200.00	1.05	226.60	8198.84	5.90N	51.59E	0.16	45.23	836136.75	718454.59
8300.00	0.60	208.40	8298.82	4.81N	50.68E	0.52	44.81	836135.83	718453.50
8400.00	0.52	176.15	8398.82	3.90N	50.46E	0.32	44.97	836135.62	718452.59
8500.00	0.63	165.22	8498.82	2.92N	50.63E	0.15	45.51	836135.79	718451.60
8600.00	0.72	161.60	8598.81	1.79N	50.97E	0.10	46.26	836136.13	718450.48
8700.00	0.65	158.98	8698.80	0.66N	51.37E	0.08	47.07	836136.53	718449.35
8800.00	0.65	164.25	8798.79	0.41S	51.73E	0.06	47.81	836136.88	718448.27
8900.00	0.60	161.47	8898.79	1.45S	52.05E	0.06	48.51	836137.20	718447.23
9000.00	0.53	170.52	8998.78	2.41S	52.29E	0.11	49.11	836137.45	718446.28
9100.00	0.58	177.45	9098.78	3.37S	52.39E	0.08	49.57	836137.55	718445.32
9200.00	0.60	168.80	9198.77	4.39S	52.52E	0.09	50.08	836137.67	718444.30
9300.00	0.82	184.87	9298.77	5.61S	52.56E	0.29	50.60	836137.71	718443.07
9400.00	0.77	201.58	9398.76	6.95S	52.25E	0.24	50.84	836137.40	718441.73
9500.00	1.02	198.88	9498.74	8.42S	51.71E	0.25	50.91	836136.87	718440.27
9600.00	0.83	197.08	9598.73	9.95S	51.21E	0.19	51.05	836136.37	718438.73
9700.00	0.73	189.53	9698.72	11.27S	50.89E	0.14	51.27	836136.05	718437.41
9800.00	0.83	181.28	9798.71	12.63S	50.77E	0.15	51.69	836135.93	718436.06
9900.00	1.13	179.00	9898.70	14.34S	50.77E	0.30	52.35	836135.93	718434.35

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 385.71 on azimuth 115.26 degrees from wellhead.

Vertical section is from S 0.00 W 0.00 on azimuth 112.90 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid.

Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
9934.00	1.15	180.10	9932.69	15.01S	50.78E	0.09	52.62	836135.93	718433.67
2nd Ko 9970.00	0.80	168.30	9968.69	15.62S	50.83E	1.12	52.90	836135.98	718433.07
10001.00	1.70	172.20	9999.68	16.29S	50.94E	2.91	53.26	836136.09	718432.40
10032.00	2.50	165.20	10030.66	17.40S	51.17E	2.71	53.91	836136.33	718431.29
10063.00	2.60	159.50	10061.63	18.71S	51.59E	0.88	54.80	836136.74	718429.98
10094.00	3.08	151.50	10092.59	20.10S	52.23E	2.00	55.94	836137.39	718428.59
10125.00	3.96	150.70	10123.53	21.77S	53.15E	2.84	57.44	836138.31	718426.92
10156.00	4.66	140.90	10154.44	23.68S	54.47E	3.27	59.39	836139.63	718425.01
10188.00	5.10	146.20	10186.33	25.87S	56.08E	1.97	61.73	836141.24	718422.82
10219.00	5.70	153.90	10217.19	28.39S	57.53E	3.03	64.04	836142.68	718420.29
10250.00	6.20	147.30	10248.02	31.19S	59.11E	2.73	66.59	836144.26	718417.50
10282.00	6.60	141.60	10279.82	34.08S	61.19E	2.34	69.63	836146.34	718414.61
10313.00	7.00	133.10	10310.61	36.77S	63.67E	3.49	72.96	836148.83	718411.92
10344.00	8.00	126.70	10341.34	39.35S	66.78E	4.20	76.83	836151.93	718409.34
10375.00	8.80	122.60	10372.01	41.92S	70.51E	3.22	81.26	836155.66	718406.77
10407.00	9.40	120.20	10403.61	44.55S	74.83E	2.22	86.27	836159.98	718404.14
10438.00	9.70	119.10	10434.18	47.09S	79.30E	1.13	91.37	836164.45	718401.60
10469.00	10.40	118.80	10464.70	49.71S	84.03E	2.26	96.75	836169.19	718398.98
10501.00	11.00	118.40	10496.14	52.55S	89.25E	1.89	102.66	836174.40	718396.13
10532.00	11.40	116.60	10526.55	55.33S	94.59E	1.71	108.67	836179.74	718393.35
10563.00	11.50	116.00	10556.94	58.06S	100.11E	0.50	114.81	836185.26	718390.63
10595.00	11.60	117.70	10588.29	60.95S	105.82E	1.11	121.20	836190.98	718387.73
10626.00	11.90	117.30	10618.64	63.87S	111.42E	1.00	127.49	836196.58	718384.82
10657.00	12.40	118.40	10648.94	66.92S	117.19E	1.78	133.99	836202.34	718381.77
10689.00	12.70	119.80	10680.18	70.30S	123.26E	1.34	140.90	836208.42	718378.39

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 385.71 on azimuth 115.26 degrees from wellhead.
Vertical section is from S 0.00 W 0.00 on azimuth 112.90 degrees.

Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES	Dogleg Deg/100ft	Vert Sect	GRID Easting	COORDS Northing
10719.00	13.40	120.90	10709.40	73.72S	129.11E	2.48	147.62	836214.26
10750.00	13.50	123.30	10739.55	77.55S	135.22E	1.83	154.74	836220.37
10781.00	14.20	125.10	10769.65	81.73S	141.35E	2.65	162.01	836226.51
10813.00	14.70	125.80	10800.64	86.36S	147.86E	1.66	169.81	836233.01
10844.00	15.10	127.50	10830.60	91.12S	154.25E	1.91	177.55	836239.40
10876.00	15.40	128.90	10861.47	96.32S	160.86E	1.48	185.67	836246.02
10907.00	15.60	130.40	10891.34	101.61S	167.24E	1.45	193.60	836252.39
10939.00	15.70	128.90	10922.16	107.12S	173.89E	1.30	201.86	836259.04
10978.00	16.30	131.10	10959.65	114.03S	182.12E	2.19	212.14	836267.27
11010.00	16.10	129.70	10990.38	119.82S	188.92E	1.37	220.65	836274.07
11041.00	16.00	126.10	11020.17	125.08S	195.67E	3.23	228.92	836280.83
11072.00	16.30	122.60	11049.95	129.94S	202.79E	3.29	237.37	836287.95
11104.00	16.30	121.20	11080.66	134.69S	210.42E	1.23	246.24	836295.57
11136.00	16.70	117.70	11111.34	139.15S	218.33E	3.35	255.27	836303.48
11167.00	16.30	113.80	11141.07	142.97S	226.25E	3.80	264.06	836311.41
11199.00	15.90	110.30	11171.81	146.31S	234.47E	3.28	272.92	836319.63
11231.00	15.90	106.80	11202.59	149.10S	242.78E	3.00	281.66	836327.93
11262.00	15.80	104.00	11232.41	151.34S	250.94E	2.49	290.05	836336.09
11294.00	16.40	99.90	11263.16	153.17S	259.62E	4.02	298.76	836344.77
11325.00	16.00	97.70	11292.93	154.50S	268.16E	2.36	307.15	836353.32
11357.00	15.90	95.90	11323.70	155.54S	276.89E	1.58	315.60	836362.05
11388.00	15.90	96.30	11353.51	156.44S	285.34E	0.35	323.73	836370.49
11419.00	16.08	96.70	11383.31	157.41S	293.82E	0.68	331.92	836378.98
11451.00	16.00	96.30	11414.06	158.41S	302.61E	0.43	340.40	836387.76
11482.00	15.80	95.90	11443.88	159.31S	311.05E	0.74	348.53	836396.21

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 385.71 on azimuth 115.26 degrees from wellhead.

Vertical section is from S 0.00 W 0.00 on azimuth 112.90 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES	Dogleg Deg/100ft	Vert Sect	GRID COORDS Easting	North
11514.00	15.90	95.90	11474.66	160.21S	319.75E	0.31	356.89	836404.90 718288.47
11545.00	15.50	96.70	11504.51	161.13S	328.08E	1.47	364.93	836413.24 718287.56
11577.00	15.00	98.80	11535.38	162.26S	336.42E	2.33	373.05	836421.58 718286.42
11627.00	14.26	102.37	11583.76	164.57S	348.83E	2.33	385.38	836433.99 718284.11

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 385.71 on azimuth 115.26 degrees from wellhead.

Vertical section is from S 0.00 W 0.00 on azimuth 112.90 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

TMBR/SHARP DRILLING INC.
HILBURN #3, slot #1
, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 8
Your ref : MWD
Last revised : 16-Jan-2002

				Comments in wellpath
				=====
MD	TVD	Rectangular Coords.		Comment
11627.00	11583.76	164.57S	348.83E	PROJ TO BIT

NO Targets associated with this wellpath

TMBR/SHARP DRILLING INC.
HILBURN #3

slot #1

LEA COUNTY, NEW MEXICO

BHL-2

SURVEY LISTING

by
Baker Hughes INTEQ

SUR: D-13-16s-36e, 510/N & 250/W
SIDE TRACK 2
BHL; C-13-16s-36e, 406/N & 1344/W
API # 30-025-35596

Your ref : Sidetrack
Our ref : svyl870
License :

Date printed : 16-Jan-2002
Date created : 2-Jan-2002
Last revised : 16-Jan-2002

Field is centred on n32 58 13.000,w103 14 15
Structure is centred on n32 58 13.000,w103 14 15

Slot location is n32 58 13.000,w103 14 15.000
Slot Grid coordinates are N 718448.687, E 836085.155
Slot local coordinates are 0.00 N 0.00 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is Grid North

SURFACE 510' FNL + 250' FNL

BHL-2 0

11,820' MD

11,570.45' TVd

405.86' FNL + 1344.32' FNL

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	0.00	836085.15	718448.69
100.00	0.20	240.68	100.00	0.09S	0.15W	0.20	-0.16	836085.00	718448.60
200.00	0.35	224.93	200.00	0.39S	0.52W	0.17	-0.55	836084.63	718448.30
300.00	0.40	231.87	300.00	0.82S	1.01W	0.07	-1.08	836084.14	718447.87
400.00	0.50	252.07	399.99	1.17S	1.70W	0.19	-1.80	836083.45	718447.52
500.00	0.25	201.37	499.99	1.51S	2.19W	0.39	-2.33	836082.96	718447.18
600.00	0.30	192.82	599.99	1.96S	2.33W	0.06	-2.51	836082.82	718446.72
700.00	0.32	181.87	699.99	2.50S	2.40W	0.06	-2.63	836082.76	718446.19
800.00	0.25	168.63	799.99	2.99S	2.37W	0.10	-2.64	836082.79	718445.70
900.00	0.23	175.60	899.99	3.41S	2.31W	0.04	-2.62	836082.85	718445.28
1000.00	0.25	210.08	999.99	3.79S	2.40W	0.14	-2.75	836082.75	718444.89
1100.00	0.27	202.72	1099.98	4.20S	2.60W	0.04	-2.99	836082.55	718444.49
1200.00	0.32	206.33	1199.98	4.67S	2.82W	0.05	-3.25	836082.34	718444.02
1300.00	0.58	216.43	1299.98	5.33S	3.24W	0.27	-3.73	836081.91	718443.36
1400.00	0.75	222.87	1399.97	6.21S	3.99W	0.19	-4.56	836081.17	718442.47
1500.00	0.88	227.32	1499.96	7.21S	5.00W	0.14	-5.66	836080.16	718441.47
1600.00	0.78	227.65	1599.95	8.19S	6.06W	0.10	-6.82	836079.09	718440.49
1700.00	0.78	228.97	1699.94	9.10S	7.08W	0.02	-7.91	836078.07	718439.59
1800.00	0.63	228.93	1799.94	9.91S	8.01W	0.15	-8.91	836077.15	718438.78
1900.00	0.75	241.08	1899.93	10.58S	9.00W	0.19	-9.96	836076.16	718438.10
2000.00	0.85	244.57	1999.92	11.22S	10.24W	0.11	-11.26	836074.92	718437.47
2100.00	1.07	255.68	2099.91	11.77S	11.81W	0.29	-12.88	836073.34	718436.92
2200.00	1.10	241.68	2199.89	12.45S	13.56W	0.27	-14.69	836071.59	718436.23
2300.00	0.67	208.97	2299.88	13.42S	14.69W	0.65	-15.90	836070.46	718435.27
2400.00	0.70	195.48	2399.87	14.52S	15.14W	0.16	-16.45	836070.02	718434.17

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1099.26 on azimuth 84.56 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
2500.00	0.62	145.25	2499.86	15.55S	14.99W	0.56	-16.40	836070.16	718433.13
2600.00	0.80	109.32	2599.86	16.23S	14.02W	0.47	-15.51	836071.13	718432.46
2700.00	0.98	95.37	2699.84	16.54S	12.51W	0.28	-14.03	836072.64	718432.15
2800.00	1.03	67.98	2799.83	16.28S	10.83W	0.48	-12.33	836074.32	718432.40
2900.00	1.10	50.53	2899.81	15.34S	9.26W	0.33	-10.67	836075.90	718433.35
3000.00	1.27	40.18	2999.79	13.88S	7.80W	0.27	-9.08	836077.36	718434.81
3100.00	1.38	41.87	3099.76	12.14S	6.28W	0.12	-7.41	836078.87	718436.55
3200.00	1.58	68.68	3199.73	10.74S	4.19W	0.71	-5.20	836080.96	718437.95
3300.00	1.40	81.53	3299.70	10.06S	1.70W	0.38	-2.65	836083.45	718438.63
3400.00	0.95	106.18	3399.68	10.11S	0.30E	0.67	-0.66	836085.46	718438.58
3500.00	1.08	112.42	3499.66	10.70S	1.97E	0.17	0.94	836087.13	718437.99
3600.00	1.42	85.03	3599.64	10.95S	4.08E	0.68	3.02	836089.23	718437.74
3700.00	1.40	76.60	3699.61	10.56S	6.50E	0.21	5.47	836091.65	718438.13
3800.00	1.68	77.03	3799.57	9.95S	9.12E	0.28	8.13	836094.27	718438.74
3900.00	1.65	81.10	3899.53	9.40S	11.97E	0.12	11.02	836097.12	718439.29
4000.00	1.48	82.05	3999.49	9.00S	14.67E	0.17	13.75	836099.82	718439.69
4100.00	1.52	72.43	4099.46	8.42S	17.21E	0.25	16.33	836102.37	718440.27
4200.00	1.35	60.02	4199.43	7.43S	19.50E	0.35	18.70	836104.65	718441.26
4300.00	1.42	50.58	4299.40	6.05S	21.47E	0.24	20.80	836106.63	718442.64
4400.00	1.47	45.62	4399.37	4.37S	23.35E	0.13	22.83	836108.50	718444.32
4500.00	1.10	35.15	4499.34	2.69S	24.82E	0.44	24.45	836109.97	718446.00
4600.00	1.15	29.32	4599.32	1.03S	25.86E	0.12	25.65	836111.02	718447.66
4700.00	1.17	19.53	4699.30	0.81N	26.69E	0.20	26.65	836111.85	718449.50
4800.00	1.05	26.80	4799.28	2.59N	27.45E	0.18	27.57	836112.60	718451.28
4900.00	1.00	41.07	4899.27	4.07N	28.44E	0.26	28.69	836113.59	718452.75

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1099.26 on azimuth 84.56 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid.

Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
5000.00	1.00	45.67	4999.25	5.33N	29.63E	0.08	30.01	836114.79	718454.02
5100.00	0.90	52.80	5099.24	6.42N	30.88E	0.15	31.35	836116.04	718455.11
5200.00	0.97	54.23	5199.22	7.39N	32.20E	0.07	32.75	836117.35	718456.08
5300.00	1.02	55.37	5299.21	8.39N	33.61E	0.05	34.26	836118.77	718457.08
5400.00	1.10	53.58	5399.19	9.46N	35.12E	0.09	35.86	836120.27	718458.15
5500.00	1.32	56.78	5499.17	10.67N	36.86E	0.23	37.70	836122.01	718459.35
5600.00	1.03	51.02	5599.15	11.86N	38.52E	0.31	39.47	836123.67	718460.55
5700.00	1.13	50.05	5699.13	13.06N	39.97E	0.10	41.03	836125.13	718461.75
5800.00	1.25	52.75	5799.11	14.35N	41.60E	0.13	42.77	836126.75	718463.04
5900.00	1.07	54.13	5899.09	15.56N	43.22E	0.18	44.51	836128.38	718464.25
6000.00	1.00	51.65	5999.07	16.65N	44.66E	0.08	46.04	836129.82	718465.34
6100.00	0.82	47.33	6099.06	17.68N	45.87E	0.19	47.35	836131.03	718466.36
6200.00	0.68	51.32	6199.05	18.53N	46.86E	0.15	48.41	836132.02	718467.22
6300.00	0.57	64.32	6299.05	19.12N	47.77E	0.18	49.38	836132.93	718467.81
6400.00	0.57	67.78	6399.04	19.52N	48.68E	0.03	50.32	836133.84	718468.21
6500.00	0.50	76.35	6499.04	19.81N	49.57E	0.11	51.23	836134.72	718468.50
6600.00	0.48	69.03	6599.03	20.07N	50.38E	0.07	52.06	836135.54	718468.75
6700.00	0.48	82.00	6699.03	20.27N	51.19E	0.11	52.88	836136.34	718468.96
6800.00	0.40	94.37	6799.03	20.31N	51.95E	0.12	53.65	836137.11	718468.99
6900.00	0.53	97.35	6899.02	20.22N	52.76E	0.13	54.44	836137.91	718468.91
7000.00	0.50	99.15	6999.02	20.09N	53.65E	0.03	55.32	836138.80	718468.78
7100.00	0.53	117.92	7099.02	19.81N	54.49E	0.17	56.12	836139.64	718468.49
7200.00	0.52	112.27	7199.01	19.42N	55.31E	0.05	56.91	836140.47	718468.10
7300.00	0.73	120.40	7299.01	18.92N	56.28E	0.23	57.83	836141.44	718467.61
7400.00	0.80	129.52	7399.00	18.16N	57.37E	0.14	58.84	836142.53	718466.84

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1099.26 on azimuth 84.56 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
7500.00	1.12	144.22	7498.98	16.92N	58.48E	0.40	59.83	836143.64	718465.61
7600.00	1.07	169.27	7598.96	15.21N	59.23E	0.48	60.41	836144.38	718463.90
7700.00	1.17	208.87	7698.95	13.40N	58.91E	0.76	59.92	836144.06	718462.08
7800.00	1.15	215.62	7798.93	11.69N	57.83E	0.14	58.68	836142.99	718460.37
7900.00	1.30	226.17	7898.90	10.09N	56.43E	0.27	57.13	836141.58	718458.77
8000.00	1.32	229.13	7998.88	8.55N	54.74E	0.07	55.30	836139.89	718457.23
8100.00	1.17	231.92	8098.85	7.16N	53.06E	0.16	53.50	836138.22	718455.85
8200.00	1.05	226.60	8198.84	5.90N	51.59E	0.16	51.92	836136.75	718454.59
8300.00	0.60	208.40	8298.82	4.81N	50.68E	0.52	50.91	836135.83	718453.50
8400.00	0.52	176.15	8398.82	3.90N	50.46E	0.32	50.60	836135.62	718452.59
8500.00	0.63	165.22	8498.82	2.92N	50.63E	0.15	50.68	836135.79	718451.60
8600.00	0.72	161.60	8598.81	1.79N	50.97E	0.10	50.91	836136.13	718450.48
8700.00	0.65	158.98	8698.80	0.66N	51.37E	0.08	51.20	836136.53	718449.35
8800.00	0.65	164.25	8798.79	0.41S	51.73E	0.06	51.46	836136.88	718448.27
8900.00	0.60	161.47	8898.79	1.45S	52.05E	0.06	51.68	836137.20	718447.23
9000.00	0.53	170.52	8998.78	2.41S	52.29E	0.11	51.83	836137.45	718446.28
9100.00	0.58	177.45	9098.78	3.37S	52.39E	0.08	51.83	836137.55	718445.32
9200.00	0.60	168.80	9198.77	4.39S	52.52E	0.09	51.86	836137.67	718444.30
9249.00	0.90	107.50	9247.77	4.76S	52.93E	1.65	52.24	836138.09	718443.93
9280.00	2.50	84.30	9278.76	4.76S	53.84E	5.52	53.14	836138.99	718443.93
9311.00	4.20	77.30	9309.70	4.45S	55.62E	5.63	54.94	836140.77	718444.24
9343.00	6.20	78.00	9341.57	3.83S	58.45E	6.25	57.82	836143.61	718444.86
9374.00	7.30	75.20	9372.35	2.98S	61.99E	3.70	61.43	836147.15	718445.71
9406.00	8.80	85.40	9404.04	2.26S	66.40E	6.46	65.88	836151.55	718446.43
9436.00	10.40	82.90	9433.62	1.74S	71.37E	5.51	70.88	836156.53	718446.94

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1099.26 on azimuth 84.56 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
9467.00	12.00	84.70	9464.03	1.10S	77.36E	5.28	76.90	836162.51	718447.59
9499.00	12.60	86.10	9495.29	0.55S	84.15E	2.09	83.72	836169.31	718448.13
9531.00	12.80	87.50	9526.51	0.16S	91.18E	1.15	90.75	836176.33	718448.53
9562.00	12.70	87.50	9556.74	0.14N	98.01E	0.32	97.58	836183.17	718448.82
9593.00	12.90	88.90	9586.97	0.35N	104.88E	1.19	104.43	836190.03	718449.04
9624.00	12.70	87.90	9617.20	0.54N	111.74E	0.96	111.29	836196.90	718449.23
9656.00	12.20	89.90	9648.45	0.68N	118.64E	2.06	118.17	836203.79	718449.36
9688.00	13.70	87.80	9679.64	0.83N	125.81E	4.91	125.32	836210.96	718449.52
9719.00	14.90	85.70	9709.68	1.27N	133.45E	4.22	132.97	836218.60	718449.96
9750.00	16.30	83.90	9739.53	2.03N	141.75E	4.78	141.30	836226.91	718450.72
9782.00	17.90	84.70	9770.12	2.96N	151.11E	5.05	150.71	836236.27	718451.65
9813.00	19.30	85.70	9799.50	3.79N	160.97E	4.63	160.60	836246.12	718452.47
9844.00	20.60	86.10	9828.64	4.54N	171.52E	4.22	171.17	836256.67	718453.23
9876.00	22.20	85.40	9858.43	5.41N	183.16E	5.06	182.84	836268.31	718454.10
9907.00	23.90	83.90	9886.95	6.55N	195.24E	5.80	194.98	836280.40	718455.23
9938.00	25.40	83.20	9915.13	8.00N	208.09E	4.93	207.91	836293.24	718456.69
<i>2nd Ko</i> 9969.00	27.20	83.20	9942.92	9.63N	221.73E	5.81	221.64	836306.88	718458.31
10001.00	27.60	82.90	9971.33	11.41N	236.34E	1.32	236.36	836321.50	718460.10
10032.00	27.30	83.60	9998.84	13.09N	250.54E	1.42	250.64	836335.69	718461.78
10063.00	27.50	83.60	10026.36	14.68N	264.71E	0.65	264.91	836349.87	718463.37
10095.00	28.50	85.40	10054.62	16.11N	279.67E	4.09	279.93	836364.82	718464.80
10125.00	28.90	85.00	10080.93	17.32N	294.02E	1.48	294.34	836379.18	718466.01
10158.00	29.20	84.60	10109.78	18.77N	309.98E	1.08	310.36	836395.13	718467.46
10189.00	29.20	85.00	10136.84	20.14N	325.04E	0.63	325.48	836410.19	718468.83
10221.00	29.30	84.60	10164.76	21.56N	340.61E	0.69	341.12	836425.77	718470.25

All data in feet unless otherwise stated. Calculation uses minimum curvature method.
Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1099.26 on azimuth 84.56 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
10252.00	29.80	84.60	10191.73	23.00N	355.83E	1.61	356.41	836440.99	718471.69
10283.00	29.40	84.60	10218.68	24.44N	371.08E	1.29	371.72	836456.23	718473.13
10315.00	29.70	83.60	10246.52	26.06N	386.77E	1.80	387.50	836471.93	718474.75
10346.00	29.40	85.00	10273.49	27.58N	401.99E	2.43	402.79	836487.14	718476.27
10378.00	29.30	85.40	10301.38	28.90N	417.62E	0.69	418.47	836502.77	718477.58
10409.00	29.40	83.90	10328.40	30.31N	432.74E	2.39	433.66	836517.90	718479.00
10440.00	29.40	83.90	10355.41	31.93N	447.88E	0.00	448.88	836533.03	718480.62
10472.00	29.40	83.90	10383.29	33.60N	463.50E	0.00	464.59	836548.65	718482.29
10504.00	30.00	83.90	10411.08	35.28N	479.26E	1.87	480.44	836564.41	718483.97
10535.00	30.20	83.20	10437.90	37.03N	494.71E	1.30	495.99	836579.86	718485.72
10567.00	30.50	82.90	10465.52	38.99N	510.76E	1.05	512.15	836595.91	718487.67
10598.00	30.40	83.20	10492.24	40.89N	526.35E	0.59	527.86	836611.51	718489.57
10629.00	30.30	84.30	10518.99	42.59N	541.92E	1.82	543.52	836627.08	718491.28
10660.00	30.40	83.60	10545.74	44.24N	557.50E	1.19	559.18	836642.65	718492.93
10692.00	30.30	83.60	10573.36	46.05N	573.57E	0.31	575.35	836658.72	718494.73
10722.00	30.50	83.30	10599.23	47.78N	588.65E	0.84	590.52	836673.80	718496.47
10754.00	30.50	82.50	10626.81	49.79N	604.77E	1.27	606.76	836689.92	718498.47
10785.00	30.40	82.20	10653.53	51.88N	620.34E	0.59	622.46	836705.49	718500.56
10816.00	30.70	81.50	10680.23	54.11N	635.93E	1.50	638.20	836721.09	718502.80
10848.00	29.60	81.50	10707.90	56.49N	651.83E	3.44	654.25	836736.98	718505.17
10880.00	28.30	82.50	10735.90	58.65N	667.17E	4.33	669.72	836752.32	718507.33
10911.00	27.60	83.60	10763.28	60.40N	681.59E	2.80	684.24	836766.74	718509.09
10942.00	27.60	84.30	10790.76	61.92N	695.87E	1.05	698.61	836781.03	718510.61
10973.00	28.50	85.00	10818.11	63.28N	710.38E	3.09	713.18	836795.54	718511.96
11005.00	28.40	85.40	10846.25	64.55N	725.58E	0.67	728.43	836810.73	718513.24

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1099.26 on azimuth 84.56 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
11036.00	28.00	85.40	10873.57	65.73N	740.18E	1.29	743.07	836825.33	718514.41
11067.00	27.30	86.10	10901.03	66.79N	754.52E	2.49	757.46	836839.68	718515.48
11099.00	27.20	87.50	10929.48	67.61N	769.15E	2.03	772.10	836854.31	718516.30
11131.00	27.90	87.50	10957.85	68.26N	783.94E	2.19	786.88	836869.09	718516.95
11162.00	27.80	87.80	10985.26	68.85N	798.41E	0.56	801.34	836883.56	718517.54
11192.00	27.80	87.10	11011.80	69.47N	812.39E	1.09	815.31	836897.54	718518.16
11225.00	27.80	86.40	11040.99	70.35N	827.75E	0.99	830.69	836912.91	718519.03
11256.00	28.10	86.10	11068.37	71.30N	842.25E	1.07	845.21	836927.40	718519.98
11287.00	28.70	84.30	11095.64	72.53N	856.94E	3.37	859.95	836942.10	718521.22
11319.00	28.90	83.90	11123.68	74.12N	872.28E	0.87	875.37	836957.43	718522.81
11350.00	28.50	84.30	11150.87	75.65N	887.08E	1.43	890.26	836972.24	718524.34
11382.00	28.90	83.60	11178.94	77.27N	902.36E	1.63	905.62	836987.52	718525.96
11413.00	29.40	82.20	11206.02	79.14N	917.35E	2.73	920.72	837002.50	718527.82
11444.00	29.90	80.80	11232.96	81.40N	932.51E	2.76	936.03	837017.67	718530.09
11476.00	29.90	82.50	11260.70	83.72N	948.29E	2.65	951.96	837033.45	718532.41
11508.00	29.10	82.90	11288.55	85.72N	963.92E	2.57	967.71	837049.08	718534.41
11539.00	29.00	82.90	11315.65	87.58N	978.86E	0.32	982.75	837064.02	718536.27
11571.00	29.20	84.30	11343.61	89.32N	994.33E	2.22	998.31	837079.48	718538.01
11601.00	28.80	83.20	11369.85	90.90N	1008.78E	2.22	1012.86	837093.94	718539.59
11633.00	27.30	82.50	11398.09	92.77N	1023.71E	4.80	1027.90	837108.87	718541.46
11665.00	25.80	82.20	11426.72	94.67N	1037.89E	4.71	1042.19	837123.04	718543.36
11696.00	24.20	80.10	11454.81	96.68N	1050.83E	5.90	1055.27	837135.99	718545.37
11725.00	22.20	79.40	11481.46	98.71N	1062.08E	6.96	1066.65	837147.23	718547.40
11758.00	19.70	80.70	11512.28	100.76N	1073.69E	7.71	1078.41	837158.85	718549.45
11820.00	19.70	80.70	11570.65	104.14N	1094.32E	0.00	1099.26	837179.47	718552.82

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1099.26 on azimuth 84.56 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

TMBR/SHARP DRILLING INC.
HILBURN #3, slot #1
LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 8
Your ref : Sidetrack
Last revised : 16-Jan-2002

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES	Dogleg Deg/100ft	Vert Sect	GRID Easting	COORDS Northing
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All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 1099.26 on azimuth 84.56 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 84.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid.

Presented by Baker Hughes INTEQ

TMBR/SHARP DRILLING INC.
HILBURN #3, slot #1
LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 9
Your ref : Sidetrack
Last revised : 16-Jan-2002

NO Targets associated with this wellpath



PERMIAN RESOURCES

Structure : Hilburn #3

Slot : slot #1

Field : Red Hills

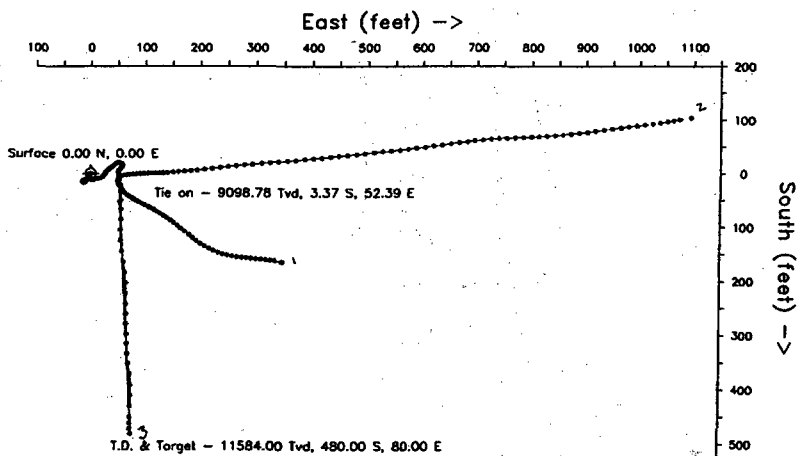
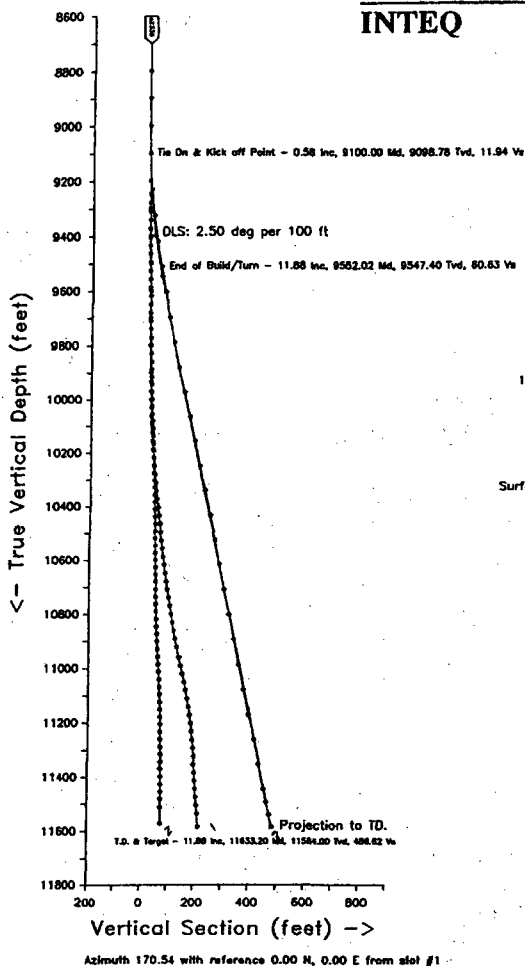
Location : LEA COUNTY, NEW MEXICO

SUR: D-13-16s-36e, 510N & 250W
SIDE TRACK 3
BHL: D-13-16s-36e, 980N & 327W
API # 30-025-35596

INTEQ

WELL PROFILE DATA

Point	MD	Inc	Dir	TVD	North	East	V. Sect	Dev/100
KOP	9100.00	0.58	177.45	9098.78	-3.37	52.39	11.94	0.00
End of Build/Turn	9552.02	11.88	176.68	9547.40	-32.27	35.19	60.63	2.50
T.D. & Target	11533.20	11.88	176.68	11584.00	-480.00	80.00	486.62	0.00



12-Aug-2003 (amc) 8026
Magnetic North is 8.67 degrees East of True North
GRID North is 0.45 degrees East of True North
To correct azimuth from True to GRID subtract 0.45 deg

Created by: danf
Date plotted: 22-Aug-2003
Plot Reference is P1 3DU RH.
Coordinates are in feet reference slot #1.
True Vertical Depths are reference rotary table.
hillpva
Baker Hughes INTEQ

PERMIAN RESOURCES
Hilburn #3

slot #1
Red Hills
LEA COUNTY, NEW MEXICO

S U R V E Y L I S T I N G

by
B aker Hughes INTEQ

Your ref : Sidetrak #2
Our ref : svy2335
License :

Date printed : 22-Aug-2003
Date created : 15-Aug-2003
Last revised : 22-Aug-2003

Field is centred on 761252.370,412852.070,999.00000,N
Structure is centred on 761252.370,412852.070,999.00000,N

Slot location is n32 58 13.000,w103 14 15.000
Slot Grid coordinates are N 718448.687, E 836085.155
Slot local coordinates are 305596.62 N 74832.79 E

Projection type: mercator - New Mexico East (3001), Spheroid: Clarke - 1866

Reference North is Grid North

PERMIAN RESOURCES
Hilburn #3, slot #1
Red Hills, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 1
Your ref : Sidetrak #2
Last revised : 22-Aug- 2003

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES	Dogleg Deg/100ft	Vert Sect	GRID Easting	COORDS Northing
0.00	0.00	0.00	0.00	0.00N	0.00E	0.00	836085.16	718448.69
100.00	0.20	240.68	100.00	0.09S	0.15W	0.20	836085.00	718448.60
200.00	0.35	224.93	200.00	0.39S	0.52W	0.17	836084.63	718448.30
300.00	0.40	231.87	300.00	0.82S	1.01W	0.07	836084.14	718447.87
400.00	0.50	252.07	399.99	1.17S	1.70W	0.19	836083.45	718447.52
500.00	0.25	201.37	499.99	1.51S	2.19W	0.39	836082.96	718447.18
600.00	0.30	192.82	599.99	1.96S	2.33W	0.06	836082.82	718446.72
700.00	0.32	181.87	699.99	2.50S	2.40W	0.06	836082.76	718446.19
800.00	0.25	168.63	799.99	2.99S	2.37W	0.10	836082.79	718445.69
900.00	0.23	175.60	899.99	3.41S	2.31W	0.04	836082.85	718445.28
1000.00	0.25	210.08	999.99	3.79S	2.40W	0.14	836082.75	718444.89
1100.00	0.27	202.72	1099.98	4.20S	2.60W	0.04	836082.55	718444.49
1200.00	0.32	206.33	1199.98	4.67S	2.82W	0.05	836082.34	718444.02
1300.00	0.58	216.43	1299.98	5.33S	3.24W	0.27	836081.91	718443.36
1400.00	0.75	222.87	1399.97	6.21S	3.99W	0.19	836081.17	718442.47
1500.00	0.88	227.32	1499.96	7.21S	5.00W	0.14	836080.16	718441.47
1600.00	0.78	227.65	1599.95	8.19S	6.06W	0.10	836079.09	718440.49
1700.00	0.78	228.97	1699.94	9.10S	7.08W	0.02	836078.07	718439.59
1800.00	0.63	228.93	1799.94	9.91S	8.01W	0.15	836077.15	718438.78
1900.00	0.75	241.08	1899.93	10.58S	9.00W	0.19	836076.16	718438.10
2000.00	0.85	244.57	1999.92	11.22S	10.24W	0.11	836074.92	718437.47
2100.00	1.07	255.68	2099.91	11.77S	11.81W	0.29	836073.34	718436.92
2200.00	1.10	241.68	2199.89	12.45S	13.56W	0.27	836071.59	718436.23
2300.00	0.67	208.97	2299.88	13.42S	14.69W	0.65	836070.46	718435.27
2400.00	0.70	195.48	2399.87	14.52S	15.14W	0.16	836070.02	718434.17
2500.00	0.62	145.25	2499.86	15.55S	14.99W	0.56	836070.16	718433.13
2600.00	0.80	109.32	2599.86	16.23S	14.02W	0.47	836071.13	718432.46
2700.00	0.98	95.37	2699.84	16.54S	12.51W	0.28	836072.64	718432.15
2800.00	1.03	67.98	2799.83	16.28S	10.83W	0.48	836074.33	718432.40
2900.00	1.10	50.53	2899.81	15.34S	9.26W	0.33	836075.90	718433.35

3000.00	1.27	40.18	2999.79	13.88S	7.80W	0.27	12.41	836077.36	718434.81
3100.00	1.38	41.87	3099.76	12.14S	6.28W	0.12	10.94	836078.87	718436.55
3200.00	1.58	68.68	3199.73	10.74S	4.19W	0.71	9.90	836080.96	718437.95
3300.00	1.40	81.53	3299.70	10.06S	1.70W	0.38	9.64	836083.4 5	718438.63
3400.00	0.95	106.18	3399.68	10.11S	0.30E	0.67	10.02	836085.46	718438.58
3500.00	1.08	112.42	3499.66	10.70S	1.97E	0.17	10.88	836087.13	718437.99
3600.00	1.42	85.03	3599.64	10.95S	4.08E	0.68	11.47	836089.23	718437.74
3700.00	1.40	76.60	3699.61	10.56S	6.50E	0.21	11.49	836091.65	718438.13
3800.00	1.68	77.03	3799.57	9.95S	9.12E	0.28	11.31	836094.27	718438.74
3900.00	1.65	81.10	3899.53	9.40S	11.97E	0.12	11.24	836097.12	718439.29
4000.00	1.48	82.05	3999.49	9.00S	14.67E	0.17	11.28	836099.82	718439.69
4100.00	1.52	72.43	4099.46	8.42S	17.21E	0.25	11.13	836102.37	718440.27
4200.00	1.35	60.02	4199.43	7.43S	19.50E	0.35	10.53	836104.65	718441.26
4300.00	1.42	50.58	4299.40	6.05S	21.47E	0.24	9.50	836106.63	718442.63
4400.00	1.47	45.62	4399.37	4.37S	23.35E	0.13	8.15	836108.50	718444.32
4500.00	1.10	35.15	4499.34	2.69S	24.82E	0.44	6.73	836109.97	718446.00
4600.00	1.15	29.32	4599.32	1.03S	25.86E	0.12	5.26	836111.02	718447.66
4700.00	1.17	19.53	4699.30	0.81N	26.69E	0.20	3.59	836111.85	718449.50
4800.00	1.05	26.80	4799.28	2.59N	27.45E	0.18	1.96	836112.60	718451.28
4900.00	1.00	41.07	4899.27	4.07N	28.44E	0.26	0.66	836113.59	718452.75

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 476.81 on azimuth 170.66 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 170.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid

Presented by Baker Hughes INTEQ

PERMIAN RESOURCES
Hilburn #3, slot #1
Red Hills, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 2
Your ref : Sidetrak #2
Last revised : 22-Aug- 2003

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect	G R I D C O O R D S Easting Northing	
5000.00	1.00	45.67	4999.25	5.33N	29.63E	0.08	- 0.39	836114.79	718454.02
5100.00	0.90	52.80	5099.24	6.42N	30.88E	0.15	- 1.26	836116.04	718455.11
5200.00	0.97	54.23	5199.22	7.39N	32.20E	0.07	- 2.00	836117.35	718456.08
5300.00	1.02	55.37	5299.21	8.39N	33.61E	0.05	-2.7 5	836118.77	718457.08
5400.00	1.10	53.58	5399.19	9.46N	35.12E	0.09	- 3.56	836120.27	718458.15
5500.00	1.32	56.78	5499.17	10.67N	36.86E	0.23	-4.46	836122.01	718459.35
5600.00	1.03	51.02	5599.15	11.86N	38.52E	0.31	- 5.37	836123.67	718460.55
5700.00	1.13	50.05	5699.13	13.06N	39.97E	0.10	-6.31	836125.13	718461.75
5800.00	1.25	52.75	5799.11	14.35N	41.60E	0.13	- 7.32	836126.75	718463.04
5900.00	1.07	54.13	5899.09	15.56N	43.22E	0.18	- 8.25	836128.38	718464.25
6000.00	1.00	51.65	5999.07	16.65N	44.66E	0.08	- 9.08	836129.82	718465.34
6100.00	0.82	47.33	6099.06	17.68N	45.87E	0.19	- 9.90	836131.03	718466.36
6200.00	0.68	51.32	6199.05	18.53N	46.86E	0.15	- 10.58	836132.02	718467.22
6300.00	0.57	64.32	6299.05	19.12N	47.77E	0.18	- 11.01	836132.93	718467.81
6400.00	0.57	67.78	6399.04	19.52N	48.68E	0.03	- 11.26	836133.84	718468.21
6500.00	0.50	76.35	6499.04	19.81N	49.57E	0.11	- 11.40	836134.72	718468.50
6600.00	0.48	69.03	6599.03	20.07N	50.38E	0.07	- 11.51	836135.54	718468.75
6700.00	0.48	82.00	6699.03	20.27N	51.19E	0.11	- 11.59	836136.34	718468.96
6800.00	0.40	94.37	6799.03	20.31N	51.95E	0.12	- 11.49	836137.11	718468.99
6900.00	0.53	97.35	6899.02	20.22N	52.76E	0.13	- 11.27	836137.91	718468.91
7000.00	0.50	99.15	6999.02	20.09N	53.65E	0.03	- 11.00	836138.80	718468.78
7100.00	0.53	117.92	7099.02	19.81N	54.49E	0.17	- 10.58	836139.64	718468.49
7200.00	0.52	112.27	7199.01	19.42N	55.31E	0.05	-10.06	836140.47	718468.10
7300.00	0.73	120.40	7299.01	18.92N	56.28E	0.23	- 9.41	836141.44	718467.61
7400.00	0.80	129.52	7399.00	18.16N	57.37E	0.14	-8.48	836142.53	718466.84
7500.00	1.12	144.22	7498.98	16.92N	58.48E	0.40	- 7.08	836143.64	718465.61
7600.00	1.07	169.27	7598.96	15.21N	59.23E	0.48	-5.27	836144.38	718463.90
7700.00	1.17	208.87	7698.95	13.40N	58.91E	0.76	- 3.53	836144.06	718462.08

7800.00	1.15	215.62	7798.93	11.69N	57.83E	0.14	- 2.02	836142.99	718460.37
7900.00	1.30	226.17	7898.90	10.09N	56.43E	0.27	- 0.67	836141.58	718458.77
8000.00	1.32	229.13	7998.88	8.55N	54.74E	0.07	0.57	836139.89	718457.23
8100.00	1.17	231.92	8098.85	7.16N	53.06E	0.16	1.66	836138.22	718455.85
8200.00	1.05	226.60	8198.84	5.90N	51.59E	0.16	2.66	836136.75	718454.59
8300.00	0.60	208.40	8298.82	4.81N	50.68E	0.52	3.58	836135.83	718453.50
8400.00	0.52	176.15	8398.82	3.90N	50.46E	0.32	4.45	836135.62	718452.59
8500.00	0.63	165.22	8498.82	2.92N	50.63E	0.15	5.44	836135.79	718451.60
8600.00	0.72	161.60	8598.81	1.79N	50.97E	0.10	6.61	836136.13	718450.48
8700.00	0.65	158.98	8698.80	0.66N	51.37E	0.08	7.79	836136.53	718449.35
8800.00	0.65	164.25	8798.79	0.41S	51.73E	0.06	8.91	836136.88	718448.27
8900.00	0.60	161.47	8898.79	1.45S	52.05E	0.06	9.99	836137.21	718447.23
9000.00	0.53	170.52	8998.78	2.41S	52.29E	0.11	10.97	836137.45	718446.28
9100.00	0.58	177.45	9098.78	3.37S	52.39E	0.08	11.93	836137.55	718445.32
9232.00	5.60	167.40	9230.55	10.33S	53.83E	3.81	19.03	836138.98	718438.36
9327.00	7.20	175.90	9324.95	20.79S	55.26E	1.95	29.59	836140.42	718427.90
9421.00	9.50	176.90	9417.95	34.41S	56.10E	2.45	43.17	836141.26	718414.27
9515.00	9.60	175.50	9510.65	49.97S	57.14E	0.27	58.68	836142.29	718398.71
9609.00	10.40	178.70	9603.22	66.27S	57.95E	1.04	74.89	836143.10	718382.42
9704.00	12.00	181.50	9696.41	84.71S	57.88E	1.78	93.08	836143.04	718363.97
9798.00	11.90	183.30	9788.37	104.16S	57.07E	0.41	112.12	836142.22	718344.53
9892.00	12.20	173.80	9880.31	123.71S	57.58E	2.13	131.49	836142.74	718324.98

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 476.81 on azimuth 170.66 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 170.54 degrees.

Grid is mercator - New Mexico East (3001).

Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
Presented by Baker Hughes INTEQ

PERMIAN RESOURCES
Hilburn #3, slot #1
Red Hills, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 3
Your ref : Sidetrak #2
Last revised : 22-Aug- 2003

Measured Depth	Inclin Degrees	Azimuth Degrees	True Vert Depth	R E C T A N G U L A R C O O R D I N A T E S	Dogleg Deg/100ft	Vert Sect	G R I D Easting	C O O R D S Northing
9986.00	12.60	171.70	9972.12	143.73S	60.14E	0.64	151.66	836145.29
10080.00	12.20	172.00	10063.92	163.71S	63.00E	0.43	171.84	836148.15
10174.00	12.00	170.60	10155.83	183.19S	65.98E	0.38	191.54	836151.13
10268.00	11.90	178.70	10247.80	202.52S	67.79E	1.79	210.91	836152.95
10362.00	11.50	179.40	10339.85	221.58S	68.11E	0.45	229.76	836153.27
10457.00	12.40	180.10	10432.79	241.25S	68.19E	0.96	249.17	836153.35
10551.00	11.00	178.00	10524.84	260.30S	68.49E	1.56	268.02	836153.64
10644.00	11.10	177.60	10616.11	278.12S	69.17E	0.14	285.70	836154.33
10739.00	11.20	178.00	10709.32	296.47S	69.88E	0.13	303.93	836155.03
10834.00	11.40	177.30	10802.48	315.07S	70.64E	0.26	322.40	836155.80
10927.00	10.60	176.00	10893.77	332.79S	71.67E	0.90	340.04	836156.83
11021.00	12.00	172.40	10985.94	351.10S	73.57E	1.67	358.41	836158.72
11115.00	11.30	170.30	11078.01	369.86S	76.41E	0.87	377.39	836161.57
11210.00	13.00	178.70	11170.88	389.72S	78.22E	2.58	397.28	836163.38
11303.00	11.90	181.20	11261.70	409.77S	78.26E	1.32	417.06	836163.41
11396.00	12.10	181.50	11352.66	429.10S	77.80E	0.23	436.05	836162.96
11489.00	12.80	180.10	11443.48	449.14S	77.53E	0.82	455.78	836162.68
11540.00	12.50	180.40	11493.24	460.31S	77.48E	0.60	466.79	836162.64
11587.00	12.50	180.40	11539.12	470.48S	77.41E	0.00	476.81	836162.57

All data in feet unless otherwise stated. Calculation uses minimum curvature method.

Coordinates from slot #1 and TVD from rotary table.

Bottom hole distance is 476.81 on azimuth 170.66 degrees from wellhead.

Vertical section is from N 0.00 W 0.00 on azimuth 170.54 degrees.

Grid is mercator - New Mexico East (3001).
Grid coordinates in FEET and computed using the Clarke - 1866 spheroid
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PERMIAN RESOURCES
Hilburn #3, slot #1
Red Hills, LEA COUNTY, NEW MEXICO

SURVEY LISTING Page 4
Your ref : Sidetrak #2
Last revised : 22-Aug- 2003

				Comments in wellpath
				=====
MD	TVD	Rectangular Coords.		Comment

11587.00	11539.12	470.48S	77.41E	Projection to TD.

NO PROPOSAL

CMD :
OG6IWCM

ONGARD
INQUIRE WELL COMPLETIONS

10/05/04 15:34:36
OGOMES -TPQE

API Well No : 30 25 29349 Eff Date : 03-01-2004 WC Status : A
Pool Idn : 56295 SHOE BAR,WOLFCAMP, NORTH
OGRID Idn : 147179 CHESAPEAKE OPERATING, INC.
Prop Idn : 33688 HILBURN

Well No : 002
GL Elevation: 99999

U/L	Sec	Township	Range	North/South	East/West	Prop/Act (P/A)
B.H. Locn	: C	13	16S	35E	FTG 1190 F N FTG 1980 F W	P
Lot Identifier:						
Dedicated Acre:	160.00					
Lease Type	: P					
Type of consolidation (Comm, Unit, Forced Pooling - C/U/F/O) :						

E6317: No more recs. for this api well no.

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06
PF07 PF08 PF09 PF10 NEXT-WC PF11 HISTORY PF12 NXTREC

CMD : ONGARD
OG6ACRE C102-DEDICATE ACREAGE

10/05/04 15:36:47
OGOMES -TPQE
Page No : 1

API Well No : 30 25 29349 Eff Date : 04-20-1994
Pool Idn : 56295 SHOE BAR,WOLFCAMP, NORTH
Prop Idn : 33688 HILBURN
Spacing Unit : 13892 OCD Order :
Sect/Twp/Rng : 13 16S 35E Acreage : 160.00 Revised C102? (Y/N) :
Dedicated Land:

S	Base U/L	Sec	Twp	Rng	Acreage	L/W	Ownership	Lot	Idn
C	13	16S	35E	40.00	N	FE			
D	13	16S	35E	40.00	N	FE			
E	13	16S	35E	40.00	N	FE			
F	13	16S	35E	40.00	N	FE			

E0005: Enter data to modify or FF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM
PF07 BKWD PF08 FWD PF09 PF10 LAND PF11 NXTSEC PF12 RECONF