



Bass. 01
**NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT**

BILL RICHARDSON

Governor

Joanna Prukop
Cabinet Secretary

January 13, 2004

Lori Wrotenbery
Director

Oil Conservation Division

Bass Enterprises Production Company

c/o **James Bruce**

P. O. Box 1056

Santa Fe, New Mexico 87504

Re: Administrative application on behalf of Bass Enterprises Production Company (administrative application reference No. pMES0-330037227) for unorthodox subsurface oil well locations in both the Undesignated Southeast Quahada Ridge-Delaware Pool (50443) and Undesignated Los Medanos-Bone Spring Pool (40295) for the existing James Ranch Unit Well No. 11 (API No. 30-015-23377) located on the surface 1980' FNL & 920' FWL (Unit E) of Section 36, Township 22 South, Range 30 East, NMPM, Eddy County, New Mexico.

Dear Mr. Bruce:

I have finally reviewed your application dated October 17, 2003 and determined it to be incomplete. So that the Division can properly proceed with issuing a final order for this directionally drilled well, please proceed accordingly:

- (1) Coordinate with the geologist in the Artesia district office of the Division in determining both the tops and bases of the Undesignated Southeast Quahada Ridge-Delaware Pool and Undesignated Los Medanos-Bone Spring Pool within the wellbore of Bass Enterprises Production Company's James Ranch Unit Well No. 11;
- (2) Determine the subsurface location of this wellbore at all four points [see Division Rule 111.A (8)]; and
- (3) Supplement your refilling with a copy of the directional survey.

The subject application is hereby dismissed and is being returned to you at this time.

Sincerely

Michael E. Stogner
Chief Hearing Officer/Engineer

cc: **New Mexico Oil Conservation Division – Artesia**
New Mexico State Land Office – Santa Fe

10-17-03 DATE IN	SUSPENSE 11-6	ENGINEER MEC	LOGGED IN MS	TYPE NSC	PMESO- APP NO. 330037227
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication

☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement

☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery

☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

James Bruce
 Print or Type Name

Signature

Attorney for Applicant

Title

jamesbruc@aol.com

e-mail Address

Date

RECEIVED
 OCT 17 2003
 Oil Conservation Division

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (PHONE)
(505) 982-2151 (FAX)

jamesbruc@aol.com

October 17, 2003

Hand Delivered

Michael E. Stogner
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Dear Mr. Stogner:

Pursuant to Division Rule 104.F.(2), Bass Enterprises Production Co. ("Bass") applies for administrative approval of an unorthodox oil well location for the following well:

<u>Well:</u>	James Ranch Unit Well No. 11
<u>Surface Location:</u>	1980 feet FNL & 920 FWL
<u>Delaware Bottomhole Location:</u>	1789 feet FNL & 1046 feet FWL
<u>Delaware Well Unit:</u>	SW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 36, Township 22 South, Range 30 East, N.M.P.M., Eddy County, New Mexico
<u>Bone Spring Bottomhole Location:</u>	1495 feet FNL & 1693 feet FWL
<u>Bone Spring Well Unit:</u>	SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 36

The well was originally drilled to test the Morrow formation, and last produced from the Atoka formation. The original Form C-102 for the well is attached as Exhibit A.

Applicant intends to re-complete the well in both the Delaware formation (Southeast Quahada Ridge-Delaware Pool) and Bone Spring formation (Los Medanos-Delaware Pool), and requests unorthodox location approval for both formations. The Delaware and Bone Spring zones are developed on statewide 40 acre spacing. The bottomhole locations for both zones are depicted on Exhibit B.

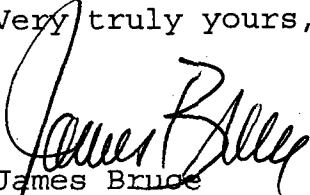
RECEIVED
OCT 17 2003
Oil Conservation Division

30-015-23377

Attached as Exhibit C is a land plat. The NW of Section 36 is covered by State Lease E-5229, and interests in the well are uniform as to all depths.¹ (The well units are within the James Ranch Unit, operated by Bass.) As a result, there is no adversely affected party who must be notified of the application.

Please call me if you need any further information on this matter.

Very truly yours,



James Bruce

Attorney for Bass Enterprises Production Co.

¹The dashed line indicates an area that was condemned, as to shallow rights, for WIPP; it does not indicate differences in leasehold ownership.

NE (ICO OIL CONSERVATION COMMISSION)
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C
Effective 1-1-

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

Operator BELCO PETROLEUM COMPANY		Lease James Ranch		Well No. 11
Unit Letter	Section 36	Township 22-S	Range 30-E	County Eddy
Actual Protrage Location of Well: 1980' feet from the North line and 920' feet from the West line				
Ground Level Elev. 3306'	Producing Formation Morrow	Pool Los Medanos	Dedicated Acreage: 320 Acr	

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 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.

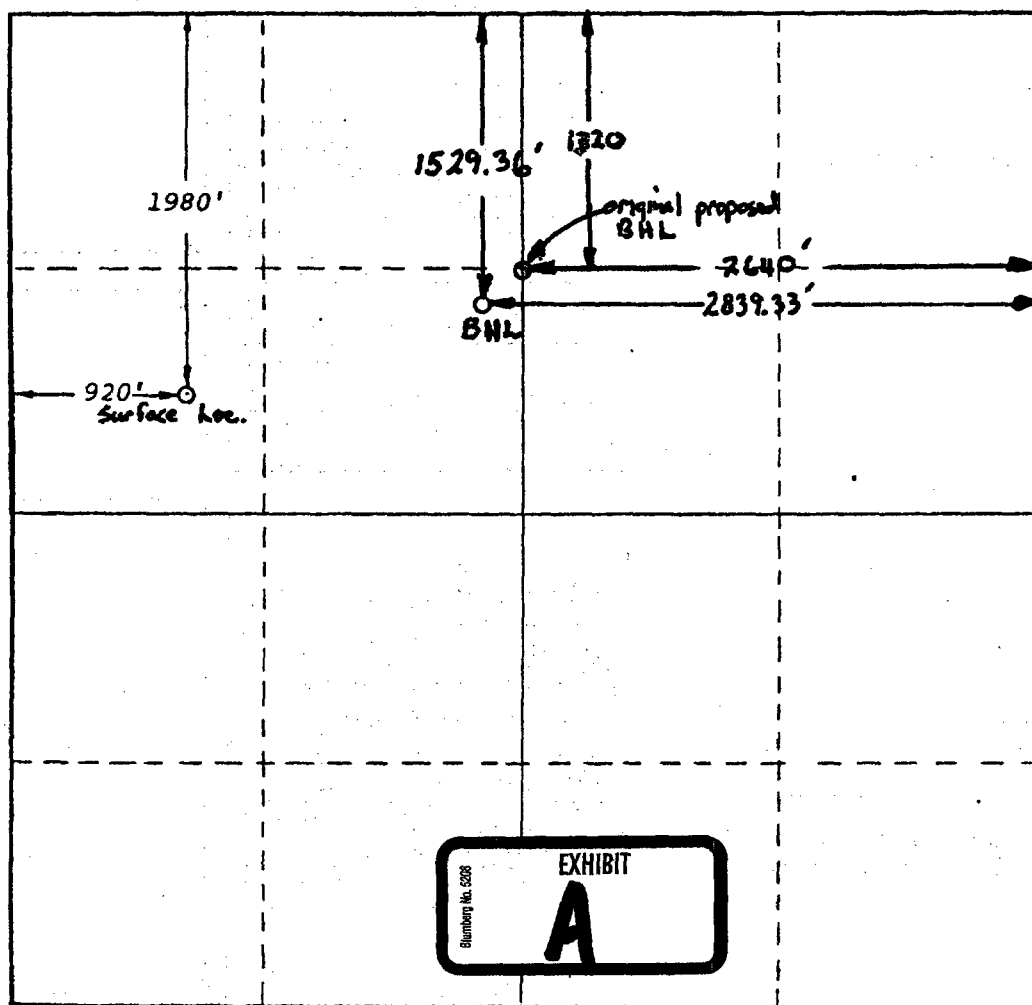


EXHIBIT
A

CERTIFICATION

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

M. E. Moore

Name

M. E. Moore

Position

District Engineer

Company

Belco Petroleum Corp

Date

May 2, 1980

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

NO. 6689
April 22, 1980

Date Surveyed

Gary D. Boswell

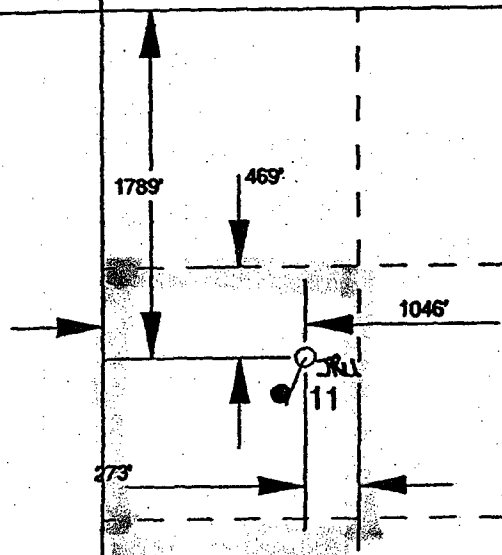
Registered Professional Engineer and/or Land Surveyor

Gary D. Boswell
Certificate No.

6689

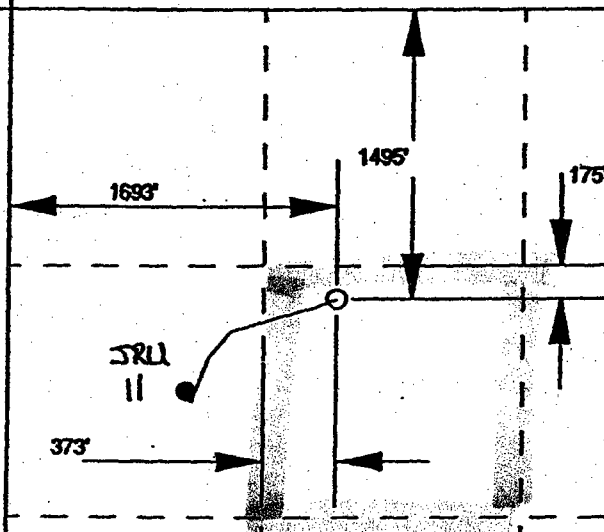
T-22-S R-30-E
Section 36
Eddy County, NM

Delaware



Delaware Bottom Hole Location





T-22-S R-30-E
Section 36
Eddy County, NM

2nd Bone Spring
Carbonate

2nd Bone Spring Bottom Hole Location

CMD : ONGARD 01/12/04 16:03:22
OG6IWCN INQUIRE WELL COMPLETIONS OGOMES -TPIR

API Well No : 30 15 23377 Eff Date : 08-02-2002 WC Status : T
Pool Idn : 80520 LOS MEDANOS;ATOKA (GAS)
OGRID Idn : 1801 BASS ENTERPRISES PRODUCTION CO
Prop Idn : 1786 JAMES RANCH UNIT

Well No : 011
GL Elevation: 99999

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

B.H. Locn : E 36 22S 30E FTG 1980 F N FTG 920 F W A
Lot Identifier:
Dedicated Acre: 320.00
Lease Type : S
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

County Eddy

Pool Los Medanos- Bone Spring

40295

TOWNSHIP 22 South

Range 30 East

NMPM

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Ext. ^{SE}/₄ Sec. 25, ^E/₂ Sec. 36 (A-11963, 5-13-03)

county Eddy Pool Southeast Quahada Ridge Delaware 50443

TOWNSHIP 22 South Range 30 East NMPM

6	5	4	3	2	1	
7	8	9	10	11	12	
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

Description: $\frac{SE}{4}$ Sec. 36 (R-9938, 8-17-93) Ext: $\frac{SW}{4}$ Sec. 36 (R-10124, 5-31-94)
Ext: $\frac{NE}{4}$ Sec. 36 (R-10591, 5-8-96) Ext: $\frac{SE}{4}$ Sec. 25 (R-11005, 7-24-98)
Ext: $\frac{NE}{4}$ Sec. 25 (R-12066, 12-9-03)

county Eddy Pool Southeast Quahada Ridge- Delaware

TOWNSHIP 23 South Range 30 East NMPM

6	5	4	3	2			
7	8	9	10	11			12
18	17	16	15	14			13
19	20	21	22	23			24
30	29	28	27	26			25
31	32	33	34	35			36

Ext: $\frac{N}{2}$ Sec. 1 (R-10042, 12-28-93) Ext: $\frac{SE}{4}$ Sec. 1 (R-11534, 2-8-01)

County Eddy Pool Southeast Quahada Ridge - Delaware

TOWNSHIP 23 South Range 31 East NMPM

6	5	4	3	2	1	
7	8	9	10	11	12	
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

Ext. $\frac{1}{2}$ Sec. 6 (R-11244, 9-15-99)

Sec : 36 Twp : 225 Rng : 30E Section Type : NORMAL

D 40.00 CS E05229 0007 BASS ENTERPRISES U R 05/10/61	C 40.00 CS E05229 0007 BASS ENTERPRISES U R 05/10/61	B 40.00 CS E05229 0007 BASS ENTERPRISES U R 05/10/61 C A	A 40.00 CS E05229 0007 BASS ENTERPRISES U R 05/10/61 A
E 40.00 CS E05229 0007 BASS ENTERPRISES U R 05/10/61 A	F 40.00 CS E05229 0007 BASS ENTERPRISES U R 05/10/61	G 40.00 CS E05229 0007 BASS ENTERPRISES U R 05/10/61 A C A	H 40.00 CS E05229 0007 BASS ENTERPRISES U R 05/10/61 C A
L 40.00 CS E05229 0007 BASS ENTERPRISES U R 05/10/61 C A C	K 40.00 CS E05229 0007 BASS ENTERPRISES U R 05/10/61 A	J 40.00 CS E05229 0008 PERRY R BASS TRUS U R 05/10/61 A	I 40.00 CS E05229 0008 PERRY R BASS TRUS U R 05/10/61 A A
M 40.00 CS E05229 0007 BASS ENTERPRISES U R 05/10/61 C A	N 40.00 CS E05229 0007 BASS ENTERPRISES U R 05/10/61 P	O 40.00 CS E05229 0008 PERRY R BASS TRUS U R 05/10/61 A A A	P 40.00 CS E05229 0008 PERRY R BASS TRUS U R 05/10/61 A A

BELCO
JAMES RANCH NO. 1
EDDY COUNTY, NEW MEXICO

WILSON DOWNHOLE DIRECTIONAL DRILLING
TRUE 10 DEGREES 30 MINUTES EAST
05-19-81 JOB NO. 08984-D

RECORD OF SURVEY

ALL CALCULATIONS PERFORMED BY DIGITAL ELECTRONIC COMPUTER

RADIUS OF CURVATURE METHOD

MEAS. DRIFT	TRUE	VERTICAL	VERTICAL	DRIFT	PAGE	TOTAL	COORDINATES	C L O S U R E S	TOG LEG
DEPTH	ANGLE	DEPTH	SECTION	DIREC	1			ANGLE	SEVERITY
D	M			DEG				D M S	DEG/100FT
500	0	0	500.00	0.00	N	0	E	0.00	0.000
594	1	0	593.99	-0.80	S	76	W	0.20	1.354
ASSUMED VERTICAL AT 500'									
COORDINATES AT 500' TO 6000' TAKEN FROM SPERRY SUN SURVEY									
685	1	0	684.98	-2.37	S	59	W	0.80	0.325
777	1	0	776.96	-3.93	S	45	W	1.79	0.265
869	1	0	868.95	-5.42	S	40	W	2.97	0.095
TAKEN FROM SPERRY SUN SURVEY									
960	1	0	959.94	-6.93	S	70	W	3.85	0.569
1052	1	0	1051.92	-8.36	S	26	W	4.84	0.814
1144	1	0	1143.91	-9.78	S	76	W	5.76	0.919
1235	1	0	1234.90	-11.25	S	36	W	6.59	0.752
1327	1	0	1326.88	-12.73	S	48	W	7.78	0.227
TAKEN FROM SPERRY SUN SURVEY									
1419	0	30	1418.87	-13.85	S	35	W	8.65	0.574
1511	0	45	1510.87	-14.44	S	2	E	9.58	0.510
1602	1	0	1601.86	-15.43	S	46	W	10.72	0.829
1694	1	0	1693.84	-16.95	S	45	W	11.85	0.019
1786	0	45	1785.83	-18.31	S	73	W	12.59	0.534

MEAS. DRIFT		TRUE		VERTICAL		DRIFT		PAGE		COORDINATES		C L O S U R E S		I O G L E G		
DEPTH	ANGLE	DEPTH	DEPTH	SECTION	DIREC	TOTAL	DIREC	2	2	2	DISTANCE	ANGLE	SEVERITY	100FT		
D	M				DEG						D	M	S	DEG		
1877	0 45	1876.63		-19.48	S 73 W	12.94	S	15.41	W	20.12	S	49	58	5	W	0.000
1969	0 45	1968.82		-20.67	S 75 W	13.27	S	16.56	W	21.22	S	51	17	32	W	0.028
2061	0 30	2060.81		-21.63	S 42 W	13.73	S	17.41	W	22.17	S	51	45	2	W	0.472
2152	0 45	2151.81		-22.51	N 64 W	13.96	S	18.27	W	22.99	S	52	37	8	W	0.681
2244	0 45	2243.80		-23.62	S 61 W	14.19	S	19.40	W	24.03	S	53	48	52	W	0.490
2336	0 45	2335.79		-24.82	S 62 W	14.76	S	20.45	W	25.22	S	54	10	49	W	0.014
2428	0 30	2427.79		-25.73	N 75 W	14.94	S	21.37	W	26.08	S	55	2	39	W	0.567
2519	0 30	2518.78		-26.14	S 10 E	15.23	S	21.69	W	26.50	S	54	55	23	W	0.927
2611	0 45	2610.78		-26.76	S 33 W	16.13	S	21.95	W	27.24	S	53	41	6	W	0.567
2703	1 0	2702.77		-27.82	S 17 W	17.40	S	22.51	W	28.45	S	52	17	25	W	0.379
2794	1 0	2793.75		-28.66	S 3 E	18.96	S	22.70	W	29.57	S	50	8	9	W	0.382
2886	1 15	2885.74		-28.81	S 35 E	20.58	S	22.08	W	30.16	S	47	1	0	W	0.727
2978	2 15	2977.69		-28.20	S 40 E	22.79	S	20.35	W	30.55	S	41	45	41	W	1.100
3069	2 15	3068.62		-26.80	S 58 E	25.10	S	17.68	W	30.70	S	35	9	41	W	0.773
3161	2 15	3160.55		-24.74	S 63 E	26.88	S	14.54	W	30.56	S	28	24	43	W	0.213
3253	2 30	3252.47		-22.82	S 50 E	28.99	S	11.40	W	31.15	S	21	27	24	W	0.644
3345	2 30	3344.39		-21.10	S 52 E	31.51	S	8.28	W	32.58	S	14	42	44	W	0.095
3436	2 30	3435.30		-18.96	S 65 E	33.57	S	4.92	W	33.93	S	8	19	20	W	0.622
3528	2 15	3527.22		-16.81	S 55 E	35.46	S	1.62	W	35.49	S	2	36	15	W	0.526
3620	2 0	3619.16		-14.95	S 63 E	37.22	S	1.30	E	37.24	S	1	59	47	E	0.421
3711	1 15	3710.12		-13.24	S 74 E	38.22	S	3.67	E	38.39	S	5	28	50	E	0.892
3803	1 15	3802.10		-11.72	S 76 E	38.74	S	5.61	E	39.14	S	8	14	2	E	0.047
3839	1 15	3838.09		-11.12	S 76 E	38.93	S	6.37	E	39.44	S	9	17	24	E	0.000
3905	1 0	3904.06		-10.20	S 65 E	39.34	S	7.59	E	40.07	S	10	54	59	E	0.500
3999	1 0	3998.06		-9.11	S 69 E	39.98	S	9.10	E	41.01	S	12	49	5	E	0.074
4093	1 0	4092.05		-8.20	S 51 E	40.79	S	10.50	E	42.12	S	14	26	6	E	0.333
4187	1 0	4186.03		-7.29	S 69 E	41.60	S	11.91	E	43.27	S	15	58	2	E	0.333
4281	1 0	4280.02		-6.39	S 50 E	42.43	S	13.30	E	44.46	S	17	24	14	E	0.351
4375	0 30	4374.01		-5.77	S 69 E	43.10	S	14.31	E	45.41	S	18	22	1	E	0.594
4469	0 30	4468.01		-5.25	S 60 E	43.45	S	15.05	E	45.98	S	19	6	6	E	0.083

MEAS. DRIFT			TRUE		VERTICAL		DRIFT		TOTAL		COORDINATES		C L O S U R E S		IOG LEG	
DEPTH	ANGLE	D	DEPTH	SECTION	D	LEG	D	LEG	D	LEG	D	LEG	D	LEG	D	LEG
4563	0 30	0	4562.01	-4.85	S	50 E	43.92	S	15.72	E	46.65	S	19 41 25	E	0.093	
4657	0 30	0	4656.00	-4.44	S	63 E	44.37	S	16.40	E	47.30	S	20 16 55	E	0.120	
4751	0 30	0	4750.00	-3.90	S	69 E	44.70	S	17.15	E	47.86	S	20 59 1	E	0.056	
4845	0 30	0	4843.99	-3.49	S	45 E	45.14	S	17.62	E	48.53	S	21 32 27	E	0.221	
4939	0 30	0	4937.99	-3.19	S	49 E	45.70	S	18.42	E	49.27	S	21 57 2	E	0.037	
5033	0 30	0	5031.99	-2.97	S	34 E	46.31	S	18.96	E	50.04	S	22 15 44	E	0.139	
5127	0 30	0	5125.98	-2.66	S	62 E	46.84	S	19.55	E	50.76	S	22 39 9	E	0.257	
5221	0 30	0	5219.98	-2.22	S	55 E	47.27	S	20.25	E	51.42	S	23 11 13	E	0.065	
5315	0 15	0	5313.98	-1.97	S	41 E	47.66	S	20.72	E	51.97	S	23 29 40	E	0.283	
5503	0 15	0	5501.98	-1.72	S	45 E	48.26	S	21.28	E	52.74	S	23 47 31	E	0.009	
5597	0 15	0	5595.98	-1.58	S	48 E	48.54	S	21.58	E	53.12	S	23 57 45	E	0.014	
5691	0 30	0	5689.97	-1.36	S	45 E	48.97	S	22.02	E	53.69	S	24 12 32	E	0.267	
5785	0 30	0	5783.97	-1.09	S	45 E	49.55	S	22.60	E	54.46	S	24 30 55	E	0.060	
5879	0 30	0	5877.97	-0.90	S	33 E	50.18	S	23.11	E	55.25	S	24 43 37	E	0.111	
5973	0 30	0	5971.96	-0.85	S	25 E	50.90	S	23.51	E	56.06	S	24 47 21	E	0.074	
6000	0 30	0	5998.96	-0.88	S	15 E	51.12	S	23.59	E	56.30	S	24 46 9	E	0.323	
6023	1 15	0	6021.96	-0.86	S	35 E	51.42	S	23.76	E	56.64	S	24 47 49	E	3.518	
6053	0 45	0	6051.96	-0.98	S	37 W	51.85	S	23.83	E	57.06	S	24 40 53	E	4.258	
6063	0 45	0	6081.95	-1.12	N	17 W	51.81	S	23.65	E	56.96	S	24 32 2	E	4.455	
6114	6 15	0	6112.88	-0.64	N	10 W	49.96	S	23.30	E	55.12	S	25 0 8	E	17.795	
6159	9 0	0	6157.50	2.59	N	21 E	44.26	S	24.14	E	50.41	S	28 36 21	E	10.906	
6229	9 30	0	6226.59	10.91	N	23 E	33.83	S	28.36	E	44.14	S	39 58 18	E	0.849	
6291	10 0	0	6287.69	18.79	N	23 E	24.16	S	32.46	E	40.46	S	53 20 17	E	0.606	
6386	10 15	0	6381.21	30.82	N	16 E	8.53	S	38.29	E	39.23	S	77 26 50	E	0.962	
6415	10 30	0	6409.74	34.39	N	17 E	3.55	S	39.86	E	40.02	S	84 55 5	E	1.062	
6513	10 45	0	6506.07	47.90	N	29 E	13.00	N	46.91	E	48.67	N	74 31 7	E	2.268	
6586	11 30	0	6577.70	59.39	N	29 E	25.31	N	53.74	E	59.40	N	64 46 38	E	1.027	
6670	12 0	0	6659.94	73.16	N	27 E	40.42	N	61.76	E	73.81	N	56 47 53	E	0.768	
6765	12 45	0	6752.73	89.01	N	24 E	58.80	N	70.51	E	91.80	N	50 10 32	E	1.040	
6860	13 45	0	6845.20	105.21	N	21 E	78.91	N	78.82	E	111.53	N	44 57 54	E	1.277	

MEAS. DRIFT		TRUE		VERTICAL		VERTICAL		DRIFT		PAGE		COORDINATES		C L O S U R E S		TOG LEG	
DEPTH	ANGLE	DEPTH	ANGLE	DEPTH	SECTION	DEPTH	SECTION	DIREC	LEG	TOTAL	4			DISTANCE	ANGLE	SEVERITY	LEG/100FT
D	M	D	M	D		D								D	M	S	
6972	13 15	6954.11		124.23		N 21 E		103.32	N	68.19	E	135.64	N 40 28 51 E	0.446			
7066	12 45	7045.70		139.85		N 23 E		122.93	N	96.10	E	156.03	N 38 0 60 E	0.716			
7161	12 15	7138.45		155.29		N 23 E		141.85	N	104.13	E	175.97	N 36 16 54 E	0.526			
7265	12 0	7240.13		171.81		N 24 E		161.89	N	112.84	E	197.33	N 34 52 40 E	0.314			
7350	11 30	7323.34		185.01		N 24 E		177.70	N	119.68	E	214.36	N 34 0 17 E	0.588			
7471	15 45	7440.96		209.41		N 42 E		200.94	N	135.79	E	242.52	N 34 2 57 E	4.953			
7534	16 45	7501.44		225.72		N 42 E		214.05	N	147.59	E	259.99	N 34 35 12 E	1.587			
7670	16 30	7631.76		261.71		N 42 E		242.96	N	173.62	E	298.62	N 35 32 60 E	0.184			
7794	16 15	7750.73		294.05		N 42 E		268.94	N	197.02	E	333.38	N 36 13 30 E	0.202			
7921	15 15	7872.96		325.82		N 41 E		294.75	N	219.66	E	367.72	N 36 43 13 E	0.616			
8012	14 45	7960.86		347.36		N 40 E		312.66	N	235.16	E	391.22	N 36 56 53 E	0.619			
8019	15 0	7967.62		349.04		N 47 E		313.96	N	236.40	E	393.00	N 36 58 41 E	25.904			
8042	14 30	7989.87		354.71		N 54 E		317.68	N	240.90	E	398.69	N 37 10 25 E	8.044			
8052	14 15	7997.56		357.16		N 56 E		319.11	N	242.94	E	401.06	N 37 16 56 E	5.559			
8064	14 0	8011.19		360.07		N 59 E		320.68	N	245.41	E	403.80	N 37 25 32 E	6.446			
6092	13 30	6038.39		366.71		N 65 E		323.80	N	251.27	E	409.66	N 37 48 40 E	5.395			
8136	13 30	6081.18		376.96		N 70 E		327.73	N	260.75	E	416.81	N 38 30 24 E	2.652			
8185	13 0	6128.87		386.02		N 77 E		330.93	N	271.50	E	428.04	N 39 21 57 E	3.428			
8247	14 0	6189.16		402.15		N 77 E		334.16	N	285.60	E	439.60	N 40 31 4 E	1.613			
8343	15 15	6282.05		425.75		N 78 E		339.42	N	309.26	E	459.18	N 42 20 18 E	1.328			
8393	16 0	6330.20		438.68		N 76 E		342.46	N	322.38	E	470.32	N 43 16 14 E	1.847			
8500	15 30	6435.18		467.38		N 75 E		349.72	N	350.50	E	495.13	N 45 3 49 E	0.532			
8600	15 0	6529.66		493.23		N 75 E		356.53	N	375.91	E	518.09	N 46 30 56 E	0.500			
8676	14 45	6605.11		512.40		N 75 E		361.58	N	394.75	E	535.32	N 47 30 41 E	0.329			
8779	13 30	6702.99		537.10		N 75 E		368.09	N	419.03	E	557.74	N 48 42 12 E	1.214			
8864	13 0	6785.73		556.21		N 76 E		372.97	N	437.89	E	575.20	N 49 34 41 E	0.647			
8933	12 15	6853.06		571.01		N 75 E		376.74	N	452.49	E	588.60	N 50 13 11 E	1.132			
9048	11 30	6965.60		594.14		N 78 E		382.28	N	475.49	E	610.10	N 51 12 7 E	0.845			
9143	11 0	9058.77		612.15		N 78 E		386.13	N	493.62	E	626.70	N 51 57 57 E	0.526			
9237	10 0	9151.20		628.72		N 80 E		389.42	N	510.43	E	642.01	N 52 39 34 E	1.132			

MEAS. DRIFT		TRUE		VERTICAL		VERTICAL		DRIFT		PAGE		COORDINATES		C L O S U R E S		IOG LEG	
DEPTH	ANGLE	DEPTH	DEPTH	SECTION	DIREC	TOTAL	5	LEG	LEG	LEG	LEG	LEG	LEG	LEG	LEG	LEG	LEG
D	M	D	M	D	M	D	M	D	M	D	M	D	M	D	M	D	M
9331	10 15	9243.73	644.67	N 79 E	392.43	N	526.68	E	656.80	N	53 18 37	E	0.325				
9393	10 15	9304.75	655.34	N 79 E	394.53	N	537.51	E	666.76	N	53 43 16	E	0.000				
9486	11 0	9396.15	671.97	N 78 E	397.96	N	554.31	E	682.37	N	54 19 27	E	0.830				
9578	11 0	9486.46	689.09	N 76 E	401.91	N	571.41	E	698.59	N	54 52 45	E	0.415				
9740	11 30	9645.35	720.10	N 75 E	409.82	N	602.01	E	728.26	N	55 45 16	E	0.331				
9866	13 0	9768.48	746.49	N 72 E	417.45	N	627.62	E	753.77	N	56 22 14	E	1.295				
9979	13 45	9878.41	772.45	N 70 E	425.98	N	652.32	E	779.09	N	56 51 18	E	0.780				
10069	14 45	9965.64	794.53	N 68 E	433.93	N	673.00	E	800.76	N	57 11 15	E	1.238				
10170	14 15	10063.42	819.76	N 68 E	443.40	N	696.45	E	825.61	N	57 31 1	E	0.495				
10233	14 0	10124.52	835.11	N 68 E	449.16	N	710.70	E	840.74	N	57 42 27	E	0.397				
10299	13 45	10188.59	850.88	N 70 E	454.83	N	725.47	E	856.26	N	57 54 53	E	0.819				
10393	13 0	10280.04	872.52	N 70 E	462.27	N	745.91	E	877.53	N	58 12 43	E	0.798				
10582	12 0	10464.55	913.22	N 70 E	476.26	N	784.34	E	917.61	N	58 44 1	E	0.529				
10695	12 15	10575.03	936.77	N 73 E	483.78	N	806.85	E	940.77	N	59 3 12	E	0.600				
10821	12 45	10698.05	963.76	N 72 E	491.99	N	832.85	E	967.31	N	59 25 44	E	0.432				
11012	14 0	10883.86	1007.60	N 71 E	506.02	N	874.75	E	1010.56	N	59 57 6	E	0.666				
11199	13 45	11065.41	1052.14	N 71 E	520.62	N	917.15	E	1054.61	N	60 25 7	E	0.134				
11387	12 15	11248.58	1094.05	N 73 E	533.73	N	957.35	E	1096.07	N	60 51 36	E	0.833				
11505	13 0	11363.73	1119.51	N 74 E	541.05	N	982.08	E	1121.25	N	61 8 56	E	0.662				
11659	14 15	11513.39	1155.32	N 73 E	551.36	N	1016.85	E	1156.71	N	61 31 57	E	0.826				
11995	12 30	11840.27	1231.95	N 75 E	572.87	N	1091.53	E	1232.72	N	62 18 30	E	0.539				
12110	7 45	11953.38	1251.17	N 90 E	576.09	N	1111.31	E	1251.75	N	62 35 54	E	4.722				
12201	9 30	12043.34	1263.35	S 88 E	575.82	N	1124.95	E	1263.75	N	62 53 37	E	1.951				
12217	10 30	12059.10	1265.85	N 88 E	575.83	N	1127.72	E	1266.23	N	62 57 2	E	7.609				
12241	11 0	12082.68	1270.00	N 85 E	576.11	N	1132.19	E	1270.33	N	63 1 52	E	3.127				
12256	11 45	12097.38	1272.79	N 82 E	576.44	N	1135.13	E	1273.11	N	63 4 39	E	6.368				
12327	11 15	12166.96	1286.35	N 80 E	578.65	N	1149.11	E	1286.58	N	63 16 19	E	0.901				
12349	10 45	12188.55	1290.35	N 84 E	579.24	N	1153.26	E	1290.55	N	63 19 53	E	4.147				
12364	10 0	12203.31	1292.85	N 89 E	579.41	N	1155.95	E	1293.04	N	63 22 42	E	7.811				
12409	10 0	12247.62	1299.95	N 89 E	579.54	N	1163.77	E	1300.09	N	63 31 38	E	0.000				

MEAS. DRIFT		TRUE		PAGE		TOTAL		COORDINATES		CLOSURE		DOG LEG	
DEPTH	ANGLE	DEPTH	SECTION	DRIFT	DIRECT	LEG	LEG	LEG	LEG	LEG	LEG	LEG	LEG
12472	10	0	12309.67	1310.01	N 86 E	580.02	N	1174.69	E	1310.09	N 63 43 18 E	0.827	
12608	9	0	12443.80	1331.22	N 80 E	582.69	N	1196.95	E	1331.25	N 64 2 33 E	1.035	
12767	10	0	12600.62	1356.55	N 79 E	587.49	N	1222.75	E	1356.56	N 64 20 15 E	0.637	
BOTTOM HOLE CLOSURE		1356.56 FEET AT N 64 20 15 E											

8' 71
1980
587
-1393

587.49' N

1222.75' E

1980' FNL
587
1393' FNL

920' FNL
+ 1222.75
2143' FNL

DIRECTIONAL DRILLING REPORT

ALL CALCULATIONS ARE PERFORMED BY DIGITAL ELECTRONIC COMPUTER
USING THE RADIUS OF CURVATURE METHOD

DATE MAY 20, 1981

RECEIVED

JUN 4 1981

O. C. D.
ARTESIA, OFFICE

COMPANY BELCO

WELL JAMES RANCH NO. 1 /

LOCATION EDDY COUNTY, NEW MEXICO

MAGNETIC DECLINATION TRUE 10° 30' EAST



JOB NO. 08984-D

FLOT PETROLEUM
JAMES RANCH WELL NO. 11
JAMES RANCH FIELD
JOY COUNTY, NEW MEXICO
ARABIAN MULTISHT

DATE OF SURVEY FEBRUARY 7, 1961
VERTICAL SECTION DIRECTION
10 DEG EAST CORRECTION
APPLIED
US-5736

SPERRY-SUN, INC RECORD OF SURVEY									
MEASURED DEPTH	TRUE VERTICAL DEPTH	SUB SEA TVD	COURSE INCLINATION DEG MIN	COURSE		DGC-LEG SEV DEG/100	TOTAL		VERTICAL SECTION
				DIRECTION DEG	FEET		RECTANGULAR NORTH/SOUTH EAST/WEST		
11910	11752.54	11752.54	TIE ON AT 11910				592.44 N	1085.34 E	1208.94
11971	11811.56	11811.56	13 15	N	75 E	4.86	597.02 N	1100.04 E	1224.24
12064	11902.72	11902.72	9 0	N	81 E	4.73	600.92 N	1117.53 E	1242.21
12157	11994.34	11994.34	7 30	S	90 E	3.32	601.30 N	1132.79 E	1254.86
12250	12086.57	12086.57	11 30	N	81 E	5.41	601.40 N	1145.34 E	1269.49
12343	12177.90	12177.90	10 15	N	88 E	1.95	603.14 N	1163.27 E	1286.69
12436	12269.46	12269.46	10 0	N	90 E	0.46	603.43 N	1179.51 E	1302.44
12529	12361.19	12361.19	0 0	N	80 E	2.07	604.69 N	1194.85 E	1317.42
12622	12453.10	12453.10	8 30	N	80 E	0.54	607.15 N	1208.78 E	1331.47
12715	12544.89	12544.89	10 0	N	90 E	1.61	609.74 N	1223.50 E	1346.92
12808	12636.41	12636.41	10 30	N	81 E	0.57	612.47 N	1239.83 E	1362.75
12901	12727.70	12727.70	11 30	N	80 E	1.09	615.41 N	1257.33 E	1380.36
12994	12818.75	12818.75	12 0	N	80 E	0.54	618.60 N	1275.08 E	1399.18
13087	12909.91	12909.91	11 30	N	80 E	2.04	620.54 N	1294.77 E	1417.72
13180	13001.14	13001.14	10 15	S	85 E	1.81	619.98 N	1312.28 E	1434.94
13273	13092.54	13092.54	11 0	S	81 E	1.13	617.87 N	1329.20 E	1450.06
13366	13183.72	13183.72	11 45	S	70 E	0.91	614.67 N	1347.35 E	1466.46
13459	13274.74	13274.74	12 0	S	68 E	2.45	609.24 N	1365.61 E	1482.43
13552	13365.64	13365.64	12 30	S	55 E	3.01	599.35 N	1382.82 E	1496.24
13645	13456.61	13456.61	11 30	S	50 E	1.40	599.30 N	1399.01 E	1508.79
13738	13547.66	13547.66	12 0	S	52 E	0.59	579.40 N	1415.16 E	1521.46
13831	13638.67	13638.67	11 45	S	62 E	0.92	569.33 N	1431.72 E	1534.62
13924	13729.84	13729.84	11 0	S	61 E	0.83	561.08 N	1447.94 E	1547.90
14017	13820.98	13820.98	12 0	S	50 E	2.59	559.57 N	1463.01 E	1560.14
14110	13911.72	13911.72	12 15	S	42 E	1.33	537.02 N	1477.02 E	1573.79
14203	14002.72	14002.72	12 45	S	35 E	1.71	521.29 N	1489.51 E	1586.23
14296	14093.57	14093.57	12 0	S	33 E	2.37	503.67 N	1499.17 E	1598.38
14389	14184.93	14184.93	0 30	S	23 E	2.75	487.86 N	1505.57 E	1601.14
14482	14276.14	14276.14	11 0	S	24 E	1.79	472.64 N	1511.91 E	1613.76
14575	14367.29	14367.29	12 0	S	21 E	1.24	456.41 N	1518.38 E	1626.29

BELCO
JAMES RANCH LEASE WELL NO. 11
UNO LOS MEDANOS FIELD
EDDY COUNTY, NEW MEXICO
MAGNETIC MULTISHOT

PAGE 1
DATE OF SURVEY SEPTEMBER 30, 1980
VERTICAL SECTION DIRECTION
CLOSURE
MS-6636

SPERRY-SUN, INC.

RECORD OF SURVEY

MEASURED DEPTH	TRUE VERTICAL DEPTH	SUR SEA TVD	COURSE INCLINATION DEG MIN	COURSE DIRECTION DEG	DGC-LEG SEV DEG/100	RECTANGULAR NORTH/SOUTH	COORDINATES EAST/WEST	VERTICAL SECTION
3839	3838.09	3838.09	TIE ON AT 3839	FEET		40.03 S	5.86 E	38.22
3905	3904.08	3904.08	1 0	S 65	0.	40.52 S	6.90 E	39.13
3999	3998.07	3998.07	1 0	S 69	0.07	41.16 S	8.41 E	40.40
4003	4002.05	4002.05	1 0	S 51	0.33	41.97 S	9.82 E	41.76
4187	4186.04	4186.04	1 0	S 69	0.33	42.78 S	11.22 E	43.13
4281	4280.02	4280.02	1 0	S 50	0.35	43.60 S	12.61 E	44.50
4375	4374.01	4374.01	0 50	S 69	0.37	44.37 S	13.88 E	45.77
4460	4468.00	4468.00	0 55	S 60	0.17	44.99 S	15.17 E	46.92
4563	4561.99	4561.99	0 55	S 50	0.17	45.85 S	16.40 E	48.25
4657	4655.98	4655.98	0 50	S 63	0.23	46.65 S	17.58 E	49.50
4751	4749.97	4749.97	0 50	S 69	0.09	47.20 S	18.83 E	50.56
4845	4843.96	4843.96	0 50	S 45	0.37	47.93 S	19.95 E	51.73
4939	4937.95	4937.95	0 45	S 49	0.11	48.82 S	20.90 E	52.95
5033	5031.94	5031.94	0 50	S 34	0.24	49.79 S	21.74 E	54.20
5127	5125.93	5125.93	0 50	S 62	0.43	50.67 S	22.73 E	55.45
5221	5219.92	5219.92	0 45	S 55	0.14	51.35 S	23.84 E	56.55
5315	5313.91	5313.91	0 50	S 60	0.12	52.04 S	24.93 E	57.68
5409	5407.91	5407.91	0 35	S 41	0.36	52.74 S	25.84 E	58.72
5503	5501.90	5501.90	0 30	S 45	0.10	53.40 S	26.44 E	59.57
5597	5595.90	5595.90	0 30	S 48	0.03	53.96 S	27.04 E	60.35
5691	5689.89	5689.89	0 40	S 45	0.18	54.62 S	27.73 E	61.25
5785	5783.89	5783.89	0 45	S 45	0.09	55.44 S	28.55 E	62.36
5879	5877.88	5877.88	0 50	S 33	0.20	56.45 S	29.36 E	63.63
5973	5971.87	5971.87	0 45	S 25	0.15	57.58 S	29.99 E	64.92
6000	5998.87	5998.87	0 45	S 15	0.48	57.91 S	30.11 E	65.27

RECEIVED

** THE CALCULATIONS ARE BASED ON THE MINIMUM RADIUS OF CURVATURE METHOD **

HORIZONTAL DISPLACEMENT = 65.27 FEET AT SOUTH 27 DEG. 28 MIN. EAST (TRUE)

OCT 2 1980

O. C. D.

ARTESIA, OFFICE

build up. TTH with gauge to 10,300' and take AOF.

Rate	FTP	CK	Gas Vol	BC	BSW
1					
2	1090	10 $\frac{1}{2}$ /64	820		
3	970	13 $\frac{1}{2}$	1100	0	0
4	887	16	1400	0	0
	802	18 $\frac{1}{2}$	1600	0	0

Concluded test and prep to Trip out of hole.