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UNION OIL COMPANY OF CALIFORNIA  
FEWD DIRECTIONAL SURVEY REPORT  
OCS-G-21245 #1  
WALKER RIDGE BLOCK 678 / OFFSHORE, LA.  
RIG: DISCOVERER SPIRIT  
API # 60-812-40004  
SEPTEMBER 18 - NOVEMBER 20, 2000  
LAMM01318

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INDEXED

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JUN 20 2001

RECORDS UNIT

21245 INDEXED #1

SPERRY-SUN DRILLING SERVICES  
FEWD DIRECTIONAL SURVEY REPORT  
WALKER RIDGE BLOCK 678 / OFFSHORE LOUISIANA  
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UNION OIL COMPANY OF CALIFORNIA  
OCS-G-21245 #1

NOVEMBER 23, 2000  
LA-MM-01318

MEASURED DEPTH	ANGLE DEG	DIRECTION DEG	VERTICAL DEPTH	LATITUDE FEET	DEPARTURE FEET	VERTICAL SECTION	DOG LEG
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7485.00	0.00	0.00	7485.00	0.00	0.00	0.00	0.00
7713.00	0.49	14.65	7713.00	0.94 N	0.25 E	-0.65	0.21
7849.00	0.65	3.94	7848.99	2.28 N	0.45 E	-1.66	0.14
8032.00	1.58	321.28	8031.96	5.28 N	1.06 W	-5.00	0.65
8119.00	1.84	324.23	8118.92	7.35 N	2.63 W	-7.58	0.32
8254.00	1.82	330.15	8253.85	10.97 N	4.96 W	-11.89	0.14
8386.00	2.07	330.37	8385.77	14.86 N	7.18 W	-16.36	0.19
8519.00	2.18	331.78	8518.68	19.17 N	9.57 W	-21.28	0.09
8768.00	1.71	2.66	8767.54	27.06 N	11.63 W	-29.00	0.45
8933.00	1.88	336.35	8932.47	32.00 N	12.60 W	-33.67	0.51
9340.00	0.88	334.95	9339.34	40.94 N	16.61 W	-43.34	0.25
9743.00	0.16	85.27	9742.33	43.79 N	17.36 W	-46.13	0.24
10153.00	1.50	132.86	10152.28	40.19 N	12.85 W	-40.65	0.34
10555.00	2.51	133.13	10554.02	30.59 N	2.57 W	-26.99	0.25
11143.00	3.22	127.27	11141.29	11.79 N	19.97 E	1.10	0.13
11812.00	3.56	134.33	11809.12	14.10 S	49.78 E	39.11	0.08
12086.00	4.09	138.99	12082.51	27.42 S	62.28 E	57.10	0.22
12221.00	4.41	140.49	12217.14	35.06 S	68.74 E	67.03	0.25
12634.00	4.60	144.80	12628.86	60.84 S	88.38 E	99.36	0.09
12902.00	4.58	146.13	12896.00	78.51 S	100.54 E	120.81	0.04
13038.00	4.97	147.52	13031.53	87.98 S	106.73 E	132.13	0.30
13170.00	4.81	146.04	13163.05	97.40 S	112.89 E	143.38	0.15
13307.00	4.90	146.99	13299.56	107.07 S	119.29 E	154.97	0.09
13447.00	4.78	145.82	13439.06	116.91 S	125.82 E	166.78	0.11
13588.00	4.76	145.70	13579.57	126.60 S	132.42 E	178.51	0.02
13719.00	4.67	144.80	13710.13	135.45 S	138.56 E	189.27	0.09
13853.00	5.01	146.63	13843.65	144.79 S	144.92 E	200.57	0.28
13993.00	4.97	147.98	13983.12	155.04 S	151.50 E	212.75	0.09
14129.00	5.17	147.76	14118.59	165.22 S	157.89 E	224.77	0.15
14263.00	5.45	148.73	14252.01	175.76 S	164.42 E	237.16	0.22
14399.00	5.56	147.36	14387.38	186.83 S	171.32 E	250.20	0.13
14535.00	5.57	149.74	14522.74	198.08 S	178.20 E	263.38	0.17
14675.00	5.78	148.59	14662.06	209.97 S	185.30 E	277.21	0.17
14810.00	5.98	148.05	14796.35	221.73 S	192.56 E	291.04	0.15

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14944.00	6.19	147.21	14929.59	233.73 S	200.17 E	305.24	0.17
15080.00	6.51	146.86	15064.76	246.35 S	208.36 E	320.28	0.24
15217.00	6.56	147.37	15200.87	259.44 S	216.82 E	335.87	0.06
15356.00	6.64	147.77	15338.95	272.93 S	225.39 E	351.85	0.07
15489.00	6.47	146.20	15471.08	285.66 S	233.66 E	367.03	0.19
15623.00	6.78	143.68	15604.18	298.31 S	242.54 E	382.48	0.32
15779.00	6.41	142.25	15759.15	312.61 S	253.33 E	400.35	0.26
15915.00	6.32	140.95	15894.31	324.43 S	262.69 E	415.37	0.12
16054.00	6.06	141.78	16032.50	336.13 S	272.05 E	430.29	0.20
16193.00	6.03	144.04	16170.73	347.81 S	280.88 E	444.90	0.17
16330.00	5.65	144.73	16307.02	359.14 S	289.00 E	458.82	0.28
16467.00	5.56	142.88	16443.36	369.94 S	296.90 E	472.19	0.15
16592.00	5.59	143.50	16567.77	379.66 S	304.17 E	484.31	0.05
16733.00	5.64	143.78	16708.09	390.77 S	312.35 E	498.08	0.04
16856.00	5.90	143.93	16830.47	400.75 S	319.64 E	510.43	0.21
17012.00	6.09	143.63	16985.62	413.90 S	329.27 E	526.70	0.12
17145.00	5.62	148.90	17117.92	425.16 S	336.82 E	540.26	0.54
17284.00	5.35	151.87	17256.29	436.70 S	343.39 E	553.51	0.28
17421.00	5.04	154.16	17392.73	447.75 S	349.02 E	565.84	0.27
17560.00	4.80	157.47	17531.21	458.61 S	353.91 E	577.61	0.27
17687.00	4.42	161.05	17657.80	468.15 S	357.54 E	587.57	0.38
17820.00	4.02	162.93	17790.44	477.45 S	360.57 E	597.01	0.32
17952.00	3.92	164.26	17922.12	486.22 S	363.15 E	605.76	0.10
18096.00	3.57	170.02	18065.82	495.37 S	365.27 E	614.57	0.36
18385.00	3.41	167.41	18354.28	512.62 S	368.70 E	630.87	0.08
18522.00	3.28	161.99	18491.05	520.33 S	370.80 E	638.46	0.25
18658.00	3.21	157.18	18626.83	527.54 S	373.48 E	645.96	0.21
18794.00	3.06	152.98	18762.63	534.28 S	376.60 E	653.31	0.20
18927.00	3.01	156.82	18895.44	540.65 S	379.59 E	660.28	0.16
19064.00	3.22	161.42	19032.24	547.61 S	382.23 E	667.54	0.24
19201.00	3.23	162.71	19169.02	554.94 S	384.61 E	674.97	0.05
19339.00	3.60	161.93	19306.78	562.77 S	387.11 E	682.89	0.27
19475.00	3.41	161.03	19442.52	570.65 S	389.75 E	690.93	0.15
19611.00	3.30	157.21	19578.29	578.09 S	392.58 E	698.70	0.18
19747.00	3.27	158.02	19714.07	585.29 S	395.54 E	706.35	0.04

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19882.00	3.65	160.54	19848.82	592.91 S	398.42 E	714.30	0.30
20163.00	3.99	163.39	20129.19	610.72 S	404.19 E	732.35	0.14
20300.00	3.99	163.39	20265.86	619.85 S	406.92 E	741.48	0.00

THE DOGLEG SEVERITY IS IN DEGREES PER 100.00 FEET  
THE VERTICAL SECTION WAS COMPUTED ALONG 146.72° (GRID)

BASED UPON MINIMUM CURVATURE TYPE CALCULATIONS. THE BOTTOM HOLE  
DISPLACEMENT IS 741.48 FEET, IN THE DIRECTION OF 146.72° (GRID)

SURVEYS CALCULATED USING SHORT COLLAR METHOD.

TOTAL MAGNETIC FIELD STRENGTH = 46929 nT

MAGNETIC DIP ANGLE = 56.579°

A TOTAL CORRECTION OF 1.277° EAST HAS BEEN APPLIED FROM MAGNETIC  
NORTH TO GRID NORTH.

(UTM NAD 27 ZONE 15)

ASSUMED VERTICAL TO 7485' MD.

SURVEYS FROM 7713' MD TO 20163' MD PROVIDED BY SPERRY-SUN FEWD.

THE SURVEY AT 20163' MD HAS BEEN PROJECTED TO TD AT 20300' MD.

SPERRY-SUN ENGINEERS: R. MENEFFEE, L. SMITH, M. ANDERSON, J. LITWINOWICZ,  
A. CASTRO, R. HOLMES.

Union Oil Co. Of California  
14141 Southwest Freeway  
Sugarland, TX 77478

RAIS

## Transmittal Form For MMS Required Data

Date: 2/7/2001  
Lease & Well No. OCS-G 21245 Well 1 (Dana Pt #1 - Original Hole  
Field Walker Ridge  
API No. 60-812-40004-00

☐ Minerals Management Service  
District Office

- ☐ Form MMS-124 Sundry Notice, Well Schematic, in triplicate w/  
☐ public information copy  
☐ Form MMS-125, Well Schematic, in duplicate w/ public infor. Copy  
☐ Item 77 of Well Summary Attachment  
☐ Other \_\_\_\_\_

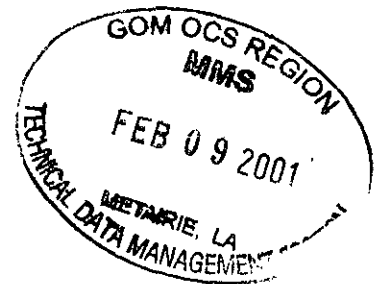
☒ Minerals Management Service  
Technical Data Management Section (MS 5020)  
1201 Elmwood Park Blvd.  
New Orleans, LA 70123-2394

- ☐ One hard copy of logs  
☒ Hard copy of survey  
☒ Floppy disk  
☐ Core Analysis  
☐ Item 77 of Well Summary Attachment  
☒ Other PALEO DATA  
☒ SURVEY PLAT

☐ Q. C. DATA, Inc.  
777 Post Oak Rd. Ste 900  
Houston, TX 77056

- ☐ One set logs (hard copy) (Dipmeter, Structural, Oil Based)  
☐ Digital tape of logs  
☐ Item 77 of Well Summary Attachment

If you have any questions, please call Ray Nemetz @ 281-287-7118



MAILED  
2-8-01 Ray Nemetz



9551520 FT N

7670 FT FNL

DIANA POINT #1  
OCSG # 21245

7809 FT FEL

RIG HEADING 145 DEG. (TRUE)

WALKER RIDGE #678

2265120 FT E

2280960 FT E

FINAL LOCATION: DIANA POINT #1 (OCSG #21245)

GRID NORTH : 9543850 FT

GRID EAST : 2273151 FT

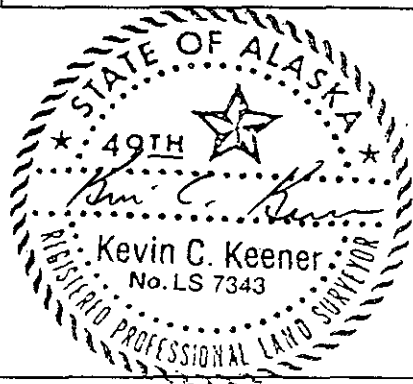
(UTM ZONE 15N, NAD 27 DATUM, U.S. FEET)

LATITUDE : 26 17 20.59 N

LONGITUDE : 91 04 06.33 W

(NAD 27 DATUM)

9535680 FT N



DISCOVERER "SPIRIT"

WALKER RIDGE BLOCK #678  
RIG MOVE

NO. REVISIONS DATE




PROJECT NO: 20078	SURVEY DATE: 09/21/2000
SCALE: 1" = 2000'	DRAWING DATE: 08/28/2000
DRAWN BY: CRR	ELLIPSOID: CLARKE 1866
CHECK BY: KCK	HORIZ. DATUM: UTM ZONE 15 (N)
SURVEY BY: VB	VERT. DATUM:

2121 BRITTMORE RD #500 HOUSTON TX 77043 (713)880-4628