

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instruction: reverse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

M-813312

6. INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD AND POOL OR WILDCAT

Gamma Ridge Narrow Gas

11. SEC. T. R. M., OR L. AND

SURVEY OR AREA

Section 10, T-22-S

R-34-E, N-34-E

12. COUNTY OR PARISH 13. STATE

Lea New Mexico

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" for such proposals.)

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐	15. ELEVATIONS (Show whether DF, RT, GR, etc.)
2. NAME OF OPERATOR The Superior Oil Company	3583 DF
3. ADDRESS OF OPERATOR P. O. Box 1960 - Midland, Texas	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1650' FWL & 1450' FWL Section 10, T-22-S, R-34-E Lea County, New Mexico	
14. PERMIT NO.	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 9-5/8" hole to 11,920'. Ran Schlumberger Gamma Ray from surface to TD. Sonic Log from 5750 to TD. Ran 7-5/8" 29.70' & 33.70', N-34-E, R-34-E, T-22-S, and 29.70' 2-95 Casing to 11,920'. Cemented with 300 sac Trinity Inferno w/4% gel & 300 sac Trinity Inferno Mast, 77 2000 psi, complete @ 10:00 AM 1-21-66. Ran Temperature Survey & found top of cement outside of 7-5/8" casing @ 9200'. After WOC 18 hours, installed BOP & tested casing w/2500 psi, OK. Went in with 9-5/8" bit and drilled casing shoe @ 11,920' and drilled out @ 7:45 PM, 1-21-1966.

18. I hereby certify that the foregoing is true and correct

SIGNED

German High

TITLE

Petroleum Engineer

DATE

1-21-66

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

APPROVED

FEB 1 1966

J. L. GORDON
ACTING DISTRICT ENGINEER

*See Instructions on Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and for approval or acceptance by any State, or all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, location of the well and land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present production; and other information of present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing; and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

U.S. GEOLOGICAL SURVEY OFFICE: 1047 O-55229
887-881

SUNDRY NOTICES AND REPORTS ON WELLS

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
UNITED STATES

1047 O-55229
10-1-60

The Superior Oil Company
C. O. Box 1900 - Midland, Texas

Section 10, T-22-S, R-24-E
San County, New Mexico

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instruction on reverse side)Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NY-033312

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Government #A

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Orma Ridge - Morrow Gas

11. SEC. T., R., M., DEGREE, AND

SURVEY OR AREA

Section 10, T-22-S,

R-34-E, NMR

12. COUNTY OR PARISH

Lee

13. STATE

New Mexico

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" for such proposals.)1. OIL ☐ GAS ☒ JAN 11 12 PM '66
WELL ☐ WELL ☐ OTHER

2. NAME OF OPERATOR

The Superior Oil Company

3. ADDRESS OF OPERATOR

P. O. Box 1900, Midland, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*

See also space 17 below.)

At surface

1650' FWL & 1650' FWL

Section 10, T-22-S, R-34-E

Lee County, New Mexico

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3583' DF

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 13-3/4" hole from 388' to 5750'. Ran 10-3/4", 51#, J-55 & K-80, SUEC Casing to 5750'. Cemented in two (2) stages: 1st stage (thru shoe) with 600 sacks Incon, 4% gel, 18% NaCl, 1/4#/sack Floccs followed by 200 sacks Incon with 18% NaCl and 1/4#/sack Floccs. Complete at 2:00 PM, 12-29-65 with FP 1800 psi. Opened DV Tool at 3845' and circulated thru tool until 8:00 PM. 2nd stage (thru DV tool) with 1070 sacks Trinity Lite-Wt cement with 18% NaCl followed by 100 sacks Incon with 18% NaCl. Complete at 9:12 PM, 12-29-65 with FP 2000 psi. Top of cement outside 10-3/4" casing by Temperature Survey at 2600'. After 18 hours, installed BOP and tested casing to 2000 psi for one hour, OK. Went in with 5-5/8" bit and drilled out DV tool at 3845', tested to 2000 psi, OK. Drilled plugs and cement from 5653 to 5750' and drilled out at 9:30 PM (MST) 12-31-65.

18. I hereby certify that the foregoing is true and correct

SIGNED

Herman High

TITLE

Petroleum Engineer

DATE

1-3-66

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED

JAN 7 1966

*See Instructions on Reverse Side

J. L. GORDON
ACTING DISTRICT ENGINEER

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

Use "APPLICATION FOR REENTRY"
I do not use this form for purposes of applying for such purposes.

20	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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THE UNIVERSITY OF CHICAGO

SECRET, UNCLASSIFIED, CONFIDENTIAL mod .0 .9

At 1000 ft. above the sea level, the temperature was 60° F. and the wind was light and variable.

SECRET

NOV 1964 116329

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

44-033312

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Government "A"

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Grana Ridge-Borrow Gas

11. SEC. T. R. M. OR DEED AND SURVEY OR COR.

Section 10, T-22-S, R-34-E, NE 1/4

12. COUNTY OR PARISH

Lee

13. STATE

New Mexico

1. OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

The Superior Oil Company

3. ADDRESS OF OPERATOR

P. O. Box 1900, Midland, Texas

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)

At surface

1650' FWL & 1650' FWL, Section 10, T-22-S, R-34-E, Lea County, New Mexico

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

3583 BW

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☒

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spudded at 7:00 PM December 9, 1965.

Drilled 22" hole to 388'. Ran 16", 650, N-40 casing to 388' and cemented with 75% sand Regular cement with 2 per cent CaCl. Cement circulated, completed at 1:30 PM 12-11-65. After WOC 18 hours, tested with 1000 psi for 30 minutes, OK. Went in with 11 3/4" bit and hit solid cement at 343', began drilling and drilled cement, float collar, float shoe and drilled out at 9:00 PM (GMT) 12-11-65.

18. I hereby certify that the foregoing is true and correct

SIGNED

Herman High

TITLE

Petroleum Engineer

DATE

12-20-65

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED

DEC 23 1965

*See Instructions on Reverse Side

**J. L. GORDON
ACTING DISTRICT ENGINEER**

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and is approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

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Item 17: Proposals to abandon a well and subsequent reports of abandonment should include special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; and or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing sealed and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

U.S. GOVERNMENT PRINTING OFFICE: 1964-O-348229

567-931

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

The Superior Oil Company

P. O. Box 1900, Midland, Texas

1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 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2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2858, 2859, 2860, 2861, 2862, 2863, 2864, 2865, 2866, 2867, 2868, 2869, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 2886, 2887, 2888, 2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2902, 2903, 2904, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 2923, 2924, 2925, 2926, 2927, 2928, 2929, 2930, 2931, 2932, 2933, 2934, 2935, 2936, 2937, 2938, 2939, 2940, 2941, 2942, 2943, 2944, 2945, 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3776, 3777, 3778, 3779, 3780, 3781, 3782, 3783, 3784, 3785, 3786, 3787, 3788, 3789, 3790, 3791, 3792, 3793, 3794, 3795, 3796, 3797, 3798, 3799, 3800, 3801, 3802, 3803, 3804, 3805, 3806, 3807, 3808, 3809, 3810, 3811, 3812, 3813, 3814, 3815, 3816, 3817, 3818, 3819, 3820, 3821, 3822, 3823, 3824, 3825, 3826, 3827, 3828, 3829, 3830, 3831, 3832, 3833, 3834, 3835, 3836, 3837, 3838, 3839, 3840, 3841, 3842, 3843, 3844, 3845, 3846, 3847, 3848, 3849, 3850, 3851, 3852, 3853, 3854, 3855, 3856, 3857, 3858, 3859, 3860, 3861, 3862, 3863, 3864, 3865, 3866, 3867, 3868, 3869, 3870, 3871, 3872, 3873, 3874, 3875, 3876, 3877, 3878, 3879, 3880, 3881, 3882, 3883, 3884, 3885, 3886, 3887, 3888, 3889,

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

COPY TO O. C. C.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐		5. LEASE DESIGNATION AND SERIAL NO. MM-033312	
b. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER ☐		6. IF INDIAN, ALLOTTEE OR TRIBE NAME --	
2. NAME OF OPERATOR The Superior Oil Company		7. UNIT AGREEMENT NAME --	
3. ADDRESS OF OPERATOR P. O. Box 1900, Midland, Texas		8. FARM OR LEASE NAME Government "A"	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 1650' PUL & 1650' PUL, Section 10, T-22-S, R-34-E MM Survey, Lea County, New Mexico At proposed prod. zone Same		9. WELL NO. 1	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 11 miles Southwest of Oil Center, New Mexico		10. FIELD AND POOL, OR WILDCAT Gran Ridge - Morrow Gas	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. line, if any) 1650'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 10, T-22-S, R-34-E MM	
16. NO. OF ACRES IN LEASE 480		12. COUNTY OR PARISH Lea	
17. NO. OF ACRES ASSIGNED TO THIS WELL 480		13. STATE New Mexico	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. --		20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3685 KB estimated		22. APPROX. DATE WORK WILL START* Near future	

PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
20"	16"	65#	400	600 sacks
13-3/4"	10-3/4"	51#	5700	1970 sacks
9-5/8"	7-5/8"	29.7 & 33.7#	11,750	600 sacks
6-5/8"	5" Liner	18#	13,200	300 sacks

We propose to drill a 20" hole to 400' and set 16" casing on bottom and circulate cement at the surface with 600 sacks. Then drill a 13-3/4" hole to approximately 5700' and set 10-3/4" casing on bottom. The 10-3/4" casing will be cemented in 2 stages: 1st stage (thru shoe) 600 sacks Incon with 4% gel, 18% salt, 1/4 lb/sack Floccs followed by 200 sacks Incon with 18% salt and 1/4 lb/sack Floccs (this should bring cement up to DV tool at 3800'). 2nd stage thru a DV tool at 3800' (just below salt) cement with 1070 sacks Trinity lightweight with 18% salt followed by 100 sacks Incon with 18% salt. If cement does not circulate, then run temperature survey. Then drill 9-5/8" hole to approximately 11,750' and set 7-5/8" casing on bottom and cement with 300 sacks Trinity Inferno with 4% gel and 300 sacks Trinity Inferno Mast. Then drill 6-5/8" hole to 13,200' (TD) to test the Morrow sand. If the Morrow sand is considered commercial a 5" liner will be run from approximately 11,600' to 13,200' and cemented with 300 sacks Trinity Inferno Mast. The liner will be perforated opposite the pay zone as indicated by electric logs.

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. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Herman High TITLE Petroleum Engineer DATE December 1, 1965
(This space for Federal or State office use)

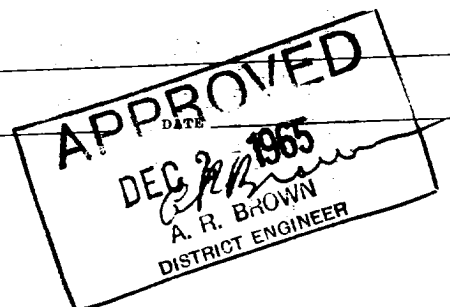
PERMIT NO. 11-11-11

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:



*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.