

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE
OTHER INSTRUCTIONS ON REVERSE SIDE

Form approved
Budget Bureau No. 42 R1424
USE DESIGNATION AND SERIAL 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" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR Odessa Natural Corporation		8. FARM OR LEASE NAME ARCO Little Fed. 29	
3. ADDRESS OF OPERATOR P. O. Box 3908, Odessa Texas 79760		9. WELL NO. 2	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1850'FNL, 790'FEL		10. FIELD AND POOL OR WILDCAT Chacon Dakota Associated	
14. PERMIT NO.		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA Sec. 29-T24N-R3W N.M.P.M.	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7031'G.L., 7044'D.F., 7045'K.B.		12. COUNTY OR PARISH Rio Arriba	
		13. STATE N.M.	

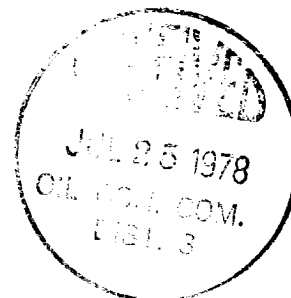
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF ☐	PULL OR ALTER CASING ☐	WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRACTURE TREAT ☐	MULTIPLE COMPLETE ☐	FRACTURE TREATMENT ☒	ALTERING CASING ☐
SHOOT OR ACIDIZE ☐	ABANDON* ☐	SHOOTING OR ACIDIZING ☐	ABANDONMENT* ☐
REPAIR WELL ☐	CHANGE PLANS ☐	(Other) ☐	

(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.)*

See Attachment for Fracture Treatment.



FOR: Odessa Natural Corporation

18. I hereby certify that the foregoing is true and correct
SIGNED Ewell N. Walsh, P.E. TITLE President, Walsh Engr. & Production Corp. DATE 7-20-78
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
JUL 24 1978

*See Instructions on Reverse Side

U.S. GEOLOGICAL SURVEY
FEDERAL GOVT.

FRACTURE TREATMENT

Formation Dakota B Stage No. 1 Date 7-15-78Operator Odeasa Natural Corp. Lease and well ARCO Lit. Fed 29-2Correlation Log Type GR-Collar From 7466' to 6000'Temporary Bridge Plug Type None Set At _____Perforations 7315'-7326', 7329'-7333'
2 per foot type 3 1/2 Glass Strip JetsPad 9872 gallons. Additives 1% Kcl. 2 lbs.
FR-20 per 1000 gallons. 1 gallon Frac Flo per
1000 gallons.Water 41,350 gallons. Additives 1% Kcl & 2 lbs.
FR-20 per 1000 gallons.Sand 40,000 lbs. Size 20/40Flush 5,000 gallons. Additives 1% Kcl. 2 lbs.
FR-20 & 1 gallon Frac Flo per 1000 gallons.Breakdown 2400 psigAve. Treating Pressure 2500 psigMax. Treating Pressure 2530 psigAve. Injection Rate 40.0 BPMHydraulic Horsepower 2451 HHPInstantaneous SIP 1350 psig5 Minute SIP 1200 psig10 Minute SIP 1110 psig15 Minute SIP 1060 psigBall Drops: 8 Balls at 30,000 gallons 100 psig
increas
Balls at _____ gallons _____ psig
increas
Balls at _____ gallons _____ psig
increas

Remarks: _____

Walsh ENGINEERING & PRODUCTION CORP.

FRACTURE TREATMENT

Formation Dakota A Stage No. 2 Date 7-15-78

Operator Odessa Natural Corporation Lease and Well ARCO Lit. Fed 29-2

Correlation Log Type _____ From _____ to _____

Temporary Bridge Plug Type Howco Speed-E-Line Set At 7277'

Perforations 7198'-7244'
1 per foot type 3½" Glass Strip Jets

Pad 9780 gallons. Additives 1 % Kcl. 2 lbs.
FR-20 per 1000 gallons. 1 gallon Frac Flo per
1000 gallons.

Water 83,100 gallons. Additives 1 % Kcl & 2 lbs.
FR-20 per 1000 gallons.

Sand 80,000 lbs. Size 20/40

Flush 5,000 gallons. Additives 1 % Kcl. 2 lbs.
FR-20 & gallon Frac Flo per 1000 gallons.

Breakdown 630 psig (Pump In)

Ave. Treating Pressure 3200 psig

Max. Treating Pressure 3360 psig

Ave. Injecton Rate 49.0 BPM

Hydraulic Horsepower 3843 HHP

Instantaneous SIP 1550 psig

5 Minute SIP 1240 psig

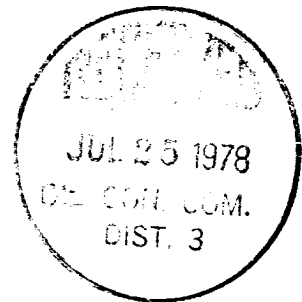
10 Minute SIP 1140 psig

15 Minute SIP 1020 psig

Ball Drops: 10 Balls at 40,000 gallons 100 psig
increas
10 Balls at 60,000 gallons 60 psig
increas
Balls at _____ gallons _____ psig
increas

Remarks: _____

Walsh ENGINEERING & PRODUCTION CORP.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL WELL ☒ DRY ☐ Other ☐				7. WELL NAME Arco Little Fed. 29			
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other ☐				8. FARM OR LEASE NAME Arco Little Fed. 29			
2. NAME OF OPERATOR Odessa Natural Corporation Att: John Strojek				9. WELL NO. 2			
3. ADDRESS OF OPERATOR P.O. Box 3908 Odessa, Texas 79760				10. FIELD AND POOL, OR WILDCAT Chacon Dakota Associated			
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1850' FNL, 790' FEL At top prod. interval reported below Same At total depth Same				11. SEC. T. R., M., OR BLOCK AND SURVEY OR AREA Sec. 29-T24N-R3W N.M.P.M.			
14. PERMIT NO.				DATE ISSUED			
15. DATE SPUDDED 6-20-78				16. DATE T.D. REACHED 7-6-78			
17. DATE COMPL. (Ready to prod.) 7-16-78				18. ELEVATIONS (DF, RSB, RT, GR, ETC.)* 7044' DF, 7045' KB, 7031' GR			
20. TOTAL DEPTH, MD & TVD 75751' 7551' 7466'				21. PLUG BACK T.D., MD & TVD 7466'			
22. IF MULTIPLE COMPL., HOW MANY*				23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS			
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 7198'-7333' Dakota				25. WAS DIRECTIONAL SURVEY MADE No			
26. TYPE ELECTRIC AND OTHER LOGS RUN IES & CNL-FDC				27. WAS WELL CORRED No			
28. CASING RECORD (Report all strings set in well)						AMOUNT PULLED	
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	
8-5/8"		24.0		366		12-1/4	
4-1/2"		10.50&11.60		7521		7-7/8	
29. LINER RECORD						30. TUBING RECORD	
SIZE		TOP (MD)		BOTTOM (MD)		SIZE	
None						2-3/8"	
SACKS CEMENT*		SCREEN (MD)		DEPTH SET (MD)		PACKER SET (MD)	
				7102'		None	
31. PERFORATION RECORD (Interval, size and number) 7198'-7244' - 1 per foot 7315'-7326') 2 per foot 7329'-7333')				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
				DEPTH INTERVAL (MD)			
				7198'-7244'			
				7315'-7333'			
				AMOUNT AND KIND OF MATERIAL USED			
				83,100 gals. water			
				80,000 lbs. sand			
				41,300 lbs. water			
				40,000 lbs. sand			
33. PRODUCTION						WELL STATUS (Flowing or Shut In)	
DATE FIRST PRODUCTION 7-28-78		PRODUCTION METHOD (Flowing, gas lift, pumpjack, etc. type of pump) Flowing				Aug 3 5 1978	
DATE OF TEST 8-6-78		HOURS TESTED 24 hrs		CHOKE SIZE 3/4"		GAS-OIL RATIO 46.0	
FLOW. TUBING PRESS. 1100psig		CASING PRESSURE 2100 psig		PROD'N. FOR TEST PERIOD OIL—BBL. 346		WATER—BBL. -0-	
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented						TEST WITNESSED BY	
35. LIST OF ATTACHMENTS							
For: Odessa Natural Corporation							
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records							
SIGNED: <u>Ewell N. Walsh, P.E.</u>				TITLE: <u>President, Walsh Eng. & Prod. Corp.</u>		DATE: <u>8-14-78</u>	

* (See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency 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. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. (All types electric, etc.). All attachments should be filed prior to the time this summary record is submitted. Copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.). All attachments should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. Consult local State and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. Consult local State Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Item 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval. Item 29: "Sacks Cement". Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

38. GEOLOGIC MARKERS

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES
DESCRIPTION, CONTENTS, ETC.

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH		TRUE VERT. DEPTH	TOP
				Ojo Alamo	2635	2635	2635	
				Kirtland	2783	2783	2783	
				Fruitland	2925	2925	2925	
				PicturedCliffs	3104	3104	3104	
				Lewis	3187	3187	3187	
				Chacra	3870	3870	3870	
				Cliff House	4647	4647	4647	
				Menefee	4700	4700	4700	
				Point Lookout	5125	5125	5125	
				Marcos	5340	5340	5340	
				Gallup	6230	6230	6230	
				Sanostee	6950	6950	6950	
				Greenhorn	7113	7113	7113	
				Graneros	7180	7180	7180	
				Dakota	7197	7197	7197	

37. SUMMARY OF IMPORTANT ZONES OF POROSITY AND CONTENTS (HYDRAULIC HEAD, PRESSURE, AND RECOVERIES). SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS (HYDRAULIC HEAD, PRESSURE, AND RECOVERIES). SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS (HYDRAULIC HEAD, PRESSURE, AND RECOVERIES). SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS (HYDRAULIC HEAD, PRESSURE, AND RECOVERIES). SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS (HYDRAULIC HEAD, PRESSURE, AND RECOVERIES). SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS (HYDRAULIC HEAD, PRESSURE, AND RECOVERIES). SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS (HYDRAULIC HEAD, PRESSURE, AND RECOVERIES). SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS (HYDRAULIC HEAD, PRESSURE, AND RECOVERIES). SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS (HYDRAULIC HEAD, PRESSURE, AND RECOVERIES). SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS (HYDRAULIC HEAD, PRESSURE, AND RECOVERIES). 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RECEIVED

AUG 25 1978

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.