

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	TAYCEN #4
Doc ID	1723319

Tops

Name	Top	Datum
Heebner	3780	-1920
Brown Lime	3959	-2098
Lansing	3980	-2119
Stark	4287	-2426
B/KC	4373	-2512
Pawnee	4436	-2575
Cherokee	4476	-2615
Simpson Shale	4637	-2776

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Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	260	Common	175	2%Gel 3%CC
Production	7.875	5.5	15.5	4695	Pro C	145	10% Salt 2% Gel 5# Koseal

QUALITY WELL SERVICE, INC.

8270

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-786-6992

Fax 620-672-3663

Todd's Cell 620-388-4967

Brady's Cell 620-727-6964

Date	4-11-23	Sec.	15	Twp.	30S	Range	15W	County	Barber	State	Ks	On Location		Finish	
Lease	TAYCEW	Well No.	4	Location											
Contractor	Murphy D216 R.6 "109	Owner													
Type Job	SURFACE	To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.													
Hole Size	12 1/4	T.D.	260'	Charge To											
Csg.	B5/B 23"	Depth	260'	Griffin											
Tbg. Size		Depth		Street											
Tool		Depth		City State											
Cement Left in Csg.		Shoe Joint	20	The above was done to satisfaction and supervision of owner agent or contractor.											
Meas Line		Displace	15.3	Cement Amount Ordered 290 1/2 Common											
EQUIPMENT				2 1/2 GAL 3 1/2 CC 1/2" PS USED 175 1/2											
Pumptrk	8	No.		Common 175 1/2											
Bulktrk	15	No.		Poz. Mix											
Bulktrk		No.		Gel. 329 lbs											
Pickup		No.		Calcium 494 lbs											
JOB SERVICES & REMARKS				Hulls											
Rat Hole				Salt											
Mouse Hole				Flowseal 87.5 lbs											
Centralizers				Kol-Seal											
Baskets				Mud CLR 48											
D/V or Port Collar				CFL-117 or CD110 CAF 38											
Run 6 H's B5/B 23" Csg SET 2 260'				Sand											
START Csg Csg on Bottom				Handling 180											
Hook 2 to Csg & BREAK CIRC W/119				Mileage 25 / 4700											
START Pumping H2O				FLOAT EQUIPMENT											
START mix Pump 175 1/2 Common				Guide Shoe											
2 1/2 GAL 3 1/2 CC 1/2" PS & 14.8 1/2 GAL				Centralizer											
START ALSO				Baskets											
Close Valve on Csg 15.3 gal. total 150"				AFU Inserts											
Good circ thru JOB				Float Shoe											
CIRC CUT TO PIT				Latch Down											
				SERVICE Spv LEA											
				LMV											
				Pumptrk Charge Surface											
				Mileage 50											
THANK YOU				Tax											
PLEASE CALL AGAIN				Discount											
Signature				Total Charge											
DATE															

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Date	4-16-23	Sec.	15	Twp.	30S	Range	15W	County	Barber	State	Ks	On Location		Finish	
Lease	TAYCEN		Well No.		4		Location								
Contractor	MONTAN DRIG LIG # 104							Owner							
Type Job	5 1/2 LS							To Quality Well Service, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.							
Hole Size	7 7/8							T.D.	4693						
Csg.	5 1/2 17"							Depth	4694.66						
Tbg. Size								Depth							
Tool								Depth							
Cement Left in Csg.								Shoe Joint	3.00						
Meas Line								Displace	103.73						
EQUIPMENT															
Pumptrk	8 No.							Common							
Bulktrk	10 No.							Poz. Mix							
Bulktrk	No.							Gel.							
Pickup	No.							Calcium							
JOB SERVICES & REMARKS															
Rat Hole	305							Hulls							
Mouse Hole								Salt							
Centralizers	1-2-3-4-5-6-7							Flowseal							
Baskets								Kol-Seal							
D/V or Port Collar	17"							Mud CLR 48							
Run 14 ft 5 1/2 15" CSG SET	4687							CFL-117 or CD110-CAF 38							
START CSG CSG ON Bottom TAG								C16A 99 lbs							
DEEP BALL Hook up to CSG! Break Circ								Sand CC-1 9 Gal C4IP 41 lb							
START Pumping 10 Bbl H ₂ O 12 Bbl MF 10 Bbl H ₂ O								Handling 217							
START Plug R-H 375								Mileage 25 / 5425							
START MISC CSG 1450 ProCD 14.8"								2. 5 1/2 FLOAT EQUIPMENT							
SLOT DOWN wash up tek Release 5 1/2 L.O.								Guide Shoe H' M 1 EA							
START DISC W/ 2% KCL								Centralizer 7 EA							
ITF PSI 92 1/2 at 550'								Baskets							
Plug DOWN 103.73 1100'								AFU Inserts							
PSI on CSG 1700'								Float Shoe							
RELEASE! HELD 1/2 Bbl BACK								Latch Down 1 EA							
Good circ thru JO3								SERVICE Spv 1 EA							
							LMV 25								
							Pumptrk Charge LS								
							Mileage 50								
THANK YOU															
PLEASE CALL AGAIN TODD BRADY NATE															
Signature															
Tax															
Discount															
Total Charge															

Griffin Management, LLC

Taycen #4

LTD-4698'

Run 114 joints 5-½"17# 4694.66' 8' shoe joint

04/19/2023

Remove cellar box clean up location. MIRU CCOS Rig #1
SD

04/20/2023

RU Log tech Run CBL/GR

LTD-4681'

TOC-2830'

Perfs-4570-4600' 2spf

LTD-4681'

Unload 164 jts of 2-7/8" from regal supply

Tally and run 145jts 10' sub and packer to 4602' circulate
spot 750 gls 15% acid pull 3 joints set at 4496'

Staged pressure up 1500 psi broke down increased rate
to 3bpm at 700 psi started balls in final 1250 gallons acid
Finished 3bpm 875 psi some ball action.

ISIP-700 psi

Load-88 bbls

5min 600 psi
10 min 575 psi
15 min 500 psi
Flowed back 6 bbls to truck RU swab.
Swabbed back 54 bbls 5% oil cut FL- 4000'
Popped bypass on packer to equalize
Swabbed back 8 bbls Bucket top oil. Shut in well shut
down for night.

04/21/2023

SITP- 50 psi
FL- 2000' 15% oil. Swab down 18 bbls 11% oil go to hour
test Three runs per hour
1hr-300'-400'-300' 12-15-18% oil Rec 4 bbls
2hr-300'-200'-200' 20-22-21% oil rec 4 bbls
Went to Two runs per hour
3hr-200'-300' 17-23% oil
Made 30 min runs remainder of day 300' fluid per run 4
bbls per hour 20-26% oil. Shut in well shut down for
night.

04/24/2023

RD Move off

05/02/2023

MIRU CCOS Rig 3

SITP- 25 psi

1-FL 1800' PF 2800' Rec 1000' 400' free oil

2-FL 2700' PF 3900' Rec 1250' 4% oil

3-FL 3700' PF SN Rec 750' Trace oil

4-FL 4100' PF SN Rec 350' trace oil 14.75 bbls recovered

05/03/2023

SITP- 20#

1-Fl-2500' PF 3500' Rec 1000' 350' free oil

2-Fl-3300' Pf Sn Rec 1200' Bucket top

3- Pf SN Rec 400' 3% oil

Swab down 13.5 bbls

1-Pf Sn Rec 300' 5% oil

2-pf SN Rec 200' 5% oil

3-Pf SN Rec 200' 5% oil

4-PF Sn Rec 200' 16% oil

REC 4.5 bbls for hour

1-PF Sn Rec 200' 12% oil

2- PF SN Rec 200' 10% oil

3-PF SN Rec 175' 12 % oil

Released packer run through perfs Swab down to 4100'

Lay down tubing and packer rig down and move off.

05/04/2023

RU Gore N2 to frac down casing W/

5054 bbls slickwater

87,586 lbs 20/40 sand

8,127 lbs Resin coat sand

1,839,000 SCf N2

59.1 BPM Avg rate

61.9 BPM Max Rate

1938 Psi Avg Pressure

2179 Psi Max Pressure

1627 psi ISIP

5 min-1477 psi

10 min-1436 Psi

15 min-1402 psi

Total load 5054 bbls

Rd Gore N2

05/05/2023

MIRU CCOS Rig #1

SICP- 1050 psi

Open on 16/64" choke to flow back

1st hr CP 200# flowed 20 bbls 18/64"

2nd hr CP 130# flowed 16 bbls 18/64"

3rd hr CP 60# flowed 35 bbls 24/64"

4th hr CP 60# flowed 25 bbls 21/64"

5th hr CP 20# flowed 20 bbls 21/64"

6th hr CP 20# flowed 20 bbls 24/64"

7th hr CP 8# flowed 12 bbls 24/64"

8th hr CP 7# flowed 10 bbls 24/64"

Flowed back 158 bbls today

05/08/2023

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: Taycen #4

API: 15-007-24465

Location: T30S R15W Sec 15

License Number: 33936

Spud Date: 4/11/2023

Surface Coordinates: 2310' FSL & 1190' FWL

Region: Barber County, KS

Drilling Completed: 4/16/2023

Bottom Hole Vertical Wellbore

Coordinates:

Ground Elevation (ft): 1856'

Logged Interval (ft): 3750'

Formation: Ordovician (Simpson) @ RTD

Type of Drilling Fluid: Mud-Co. Chemical Drispac - Displaced @ 2834-65' w/ 700 bbls

K.B. Elevation (ft): 1861'

To: 4700'

Total Depth (ft): 4700'

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Griffin Management, LLC
Address: 126 S. Main
Pratt, KS 67124

GEOLOGIST

Name: Eli J. Felts
Company: Griffin Management, LLC
Address: 126 S. Main
Pratt, KS 67124

Pipe Setting

8.625" Surface Casing Set @ 260' w/175 sxs. Common
5.5" Production Casing Set @ 4687' w/ 145 sxs. Pro C

Lithology	MD	Rate of Penetration ROP (min/ft) Gas (units)	Geological Descriptions	DSTs/Mud/Surveys, etc.
	3750			3750
	3800		SH - flood dark earthy shales; organic rich; mature - visible laminations w/ soft break; slight show gas along visible laminations LS - cream to grey, fn to v. fine & micro-xin; smooth; sl cherty break in few; flood gummy white chalky w/ ~40% SH - deep earthy brown to black LS - flood cream to white, some sl chalky; fine xin in most w/ few med xin to partly chalky; smooth oa w/ oa lithographic appearance; fairly dense in some; oth chalky; abdt lt grey shales SH - medium grey w/ some black speckled inclusions; smooth silty to sl textured sandy appearance; shalebound w/ medium to sl soft break	3800
	3850		SH - lt grey w/ black streaks & stringers interbedded carbonaceous, some sl micaceous flakes scattered; Douglas SH SH - flood varishades grey; lt to med; pale grey w/ dark carb shale fragments incl; scattered micaceous mineral glisten in part; txtured heavily silty to v. fine grained sands; no odor, ns	3850
	3900		SH - medium to dark grey, decreasing visible txtured sandy inclusions w/ oa smooth silty SH - varishades grey, lt to medium w/ some dark streaks & interbedded speckles; smooth	3900
	3950		SH - as above w/ oa appearance becoming darker greys; stringers LS - cream to tan, brown - v. fine xin w/ sm vis foss incls; v. well compacted w/ smooth to sl foss txture in part; sb cherty; v. dense	3950
	4000		LS - cream white w/ some lt grey ip, spec oolite foss & scattered; to tan, brown - v. fine xin w/ sm vis foss incls; v. well compacted w/ smooth to sl foss txture in part; sb cherty; v. dense LS - cream w/ lt grey fossils, oolites, fn-med xin w/ some re-xin & fossiliferous txture; poorly dev porosity oa w/ many foss appearing grey to tan; visible oolites et al foss; poor reservoir quality; no odor, ns	4000
	4050		LS - cream to white, marbled ip; rough fine to med xin w/ some foss txture; vis re-xin in finely fractured webbs; partially argillaceous w/ some interbedded to transitional grey shale beds; pp med brown staining w/ no odor, no show LS - cream to white, fn xin w/ some med xin w/ partial dolomitic txture - heavily chalky in part; poorly dev xin porosity w/ abdt chalk throughout; lithographic; no odor, ns	4050
	4100		LS - cream to white & lt grey, tan to brown, smooth w/ some cherty appearance; lithographic chalky to partially re-xin lime; grey foss in some; barren LS - cream to white, lt tan to grey in part; fn to med xin w/ grainy rough txture & chalky break; dark stained edges grey to brown shale contacts; grey & organic brown shales w/ earthy to carb appearance LS - cream to lt tan/brown in part; lt grey foss w/ fn-med xin; few stringers platy, glassy chert; soft poorly compacted w/ chalky break in many; increasing shale staining/contacts & stringers; grey to brown; sb carb in most	4100
	4150		LS - cream to lt tan, white, fine to med xin in most w/ sl granular txture; smooth in some w/ chalky break; transition lt grey, v. fine to microxin; v. well compacted & dense; some cherty w/ conchoidal cleavage LS - cream to buff; sm lt tan, fine to med xin w/ grainy to fossiliferous txture; fair vis intrafoss porosity w/ visible re-xin ip; fair friab w/ some chalk w/ break; no visible staining/no shows; no odor	4150
	4200		LS - cream to lt tan & sm brown, fn-med xin w/ highly foss txture; oolites; ooc & intra-oolitic; fair to good visible porosity, friab good in some w/ few increasing silica & dense oa; fair % shales w/ pale grey, sm, green to brown, sm argl to interbedded SH - varishades greys w/ speckle to mottled pale greens; silty smooth; sl v. fine textured sand incls ip; abdt LS - cream to lt tan/brown, fn & med xin; granular to foss; poorly dev reservoir qualities; argillaceous to shalebound	4200
	4250		LS - cream to buff; lt grey & white w/ some tan to brown mineral staining & foss throughtout; fn-med xin w/ poor to fair vis intrafoss (ool) porosity; barren; no odor, ns LS - cream to white, lt grey, fine xin in most w/ some edge mineral staining; poorly visible xin & foss pors; smooth & well compacted oa; dense; barren to chalky break	4250
	4300		LS - cream to white; fine xin in most oa w/ v. similar oa appearance as above; lithographic, uniform chalky dense line LS - cream to lt tan & buff; fine xin in most w/ some v. fine xin w/ smooth & blocky dense; sl platy to glassy break; heavily chalk bound; sm powdery to gummy residual; no odor, ns	4300
	4350		SH - dark brown to earthy; sm black, carbonaceous w/ trace gas bubbles along planes LS - orm to white, buff; sm pcs appear caramel colored and txtured; fine xin in most; oa lithographic, smooth to partly xin ip; platy uniform chalky Lime; barren SH - flood deep grey to black; some appears gunmetal to metallic in part; sl shimmer w/ micaceous mineral glimmers/glistens; earthy organic rich; carbonaceous SH - flood shades dark grey brown black; earthy & organic rich carbonaceous shales; Hushpuckney SH - ~80% grey silty shales w/ some med to dark brown; earthy organic in some; LS - cream to lt grey, med tan to brown, fn to v. fine xin; smooth to partly argillaceous	4350
	4400		LS - flood cream w/ v. faint pale green staining throughout; fn xin in most w/ smooth to partly argillaceous; visible weathered edges w/ some slight webbed mineral staining LS - cream to lt grey, spotted brown w/ dark brown to black webbed staining; chalky break w/ poorly dev 2ndary porosity; fract'd & poss re-xin; poorly friable; residual stain w/ dull fluor; non lively flakes residual on break LS - mostly cream w/ few pale green stained pcs; oa buff w/ some tan to brown, fn xin oa w/ visible weathering; abdt interbedded shales; chalky	4400
	4450		LS - orm to brown, mst fine xin w/ staining in webbed fractures; oa blocky & dense; dead residual; no odor; ns sm shaley contacts; grey to brown, med firm & silty to blocky LS cream w/ tan to brown staining; fn to v. fine xin w/ some vis pp to fractured & webbed staining; v. well compacted; dense oa w/ non-lively residual & fine flakey specks	4450
	4500		SH - flood varicolored shales w/ brick reds, grey to green; smooth silty w/ mottled & interbedded streaks; conglomerate; few clusters SS w/ pale cream appearance; fine grained w/ sb md to sb angl clear qtz grains; partially saturated stain w/ brown pp shows; good friability w/ fair to good show free oil on break SS - semi translucent pale cream clusters fine to sl med grained qtz; sb round to sl angl w/ fair to well sorted grains; v. lite cemented w/ good friability & fair-good show free oil partially saturated w/ increase on break; sharp oily odor; bright yellow fluor in 10-15% of sample LS - cream to white, sm pale grey to v. slight pale green hue; dolomitic in most w/ granular-sucrosic txture; % chert in most pcs dense w/ v. hard, cherty break; others softer w/ significant chalk-like powdery breaks; transitional/marbled Limey-Dolomitic-Cherty LS - cream to buff; sm white, many pcs w/ pale green staining throughout; transitional chalky to cherty & "" n between; v. fine to micro xin & oa v. smooth & dense; appears re-worked transitional viola; poorly visible porosity dev w/ mst appearing 2ndary (fract'd to webbed; sm trippolitic CH appearance) DoI - cream, fine & med xin sucrosic in some w/ sl rhombic xin dev; fair to good visible xin porosity w/ partial dissolution - small vugs; fair to good friability w/ slight shows increasing w/ break; lt golden free oil w/ fair odor; ~approx 15% oa fluorescence; fair-good reservoir quality & shows DoI - cream to white, fine xin sucrosic in most w/ fair vis xin porosity; partially stained lt golden ip; visible gas bleeding in some; fair-gd friab w/ fair-gd show free oil/gas on break; cup odor; fluor in ~40% tray w/ bright yellow pp & abdt scattered drops DoI - cream to white, fn xin suc as above w/ 10-15% appearing as above; decreasing shows & odor w/ ~10% oa fluor; decreasing visible xin porosity w/ influx chalky materials; few stringers CH - bone white vitreous w/ sharp glassy broken edges	4500
	4550		LS - cream to white, buff; fn to med xin w/ highly chalky txture in most; sm dolomitic xin dev; CH - wht vitreous w/ platy & sharp glassy break SH - flood turquoise banding to partly sandy inclusions; smooth to partly txtured w/ granular & sandy incls; pyrite xin growth & scattered in trace clusters SH - turq green w/ mst smooth txture; v. fine silty w/ matte/semi-gloss sheen waxy to sl brittle; fairly well compacted; stringers SS - appear mst as abv SH - abdt turquoise green - smooth & waxy as above; SS - cream to grey clusters w/ dark brown to black spotted & speckld incls; fn to me grained md qtz, clear to sl frosted; fair friab; barren w/ some glauconite, pyrite & clay minerals SH - pale green turquoise w/ smooth silty to waxy txture in most; abdt clusters SS - cream to grey; med sb md clear to sl frosted qtz; cemented in shales; poorly friable	4550
	4600			4600
	4650			4650
	4700			4700